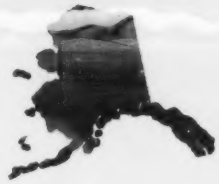
ALASKA AGRICULTURAL STATISTICS



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JUNE 1981

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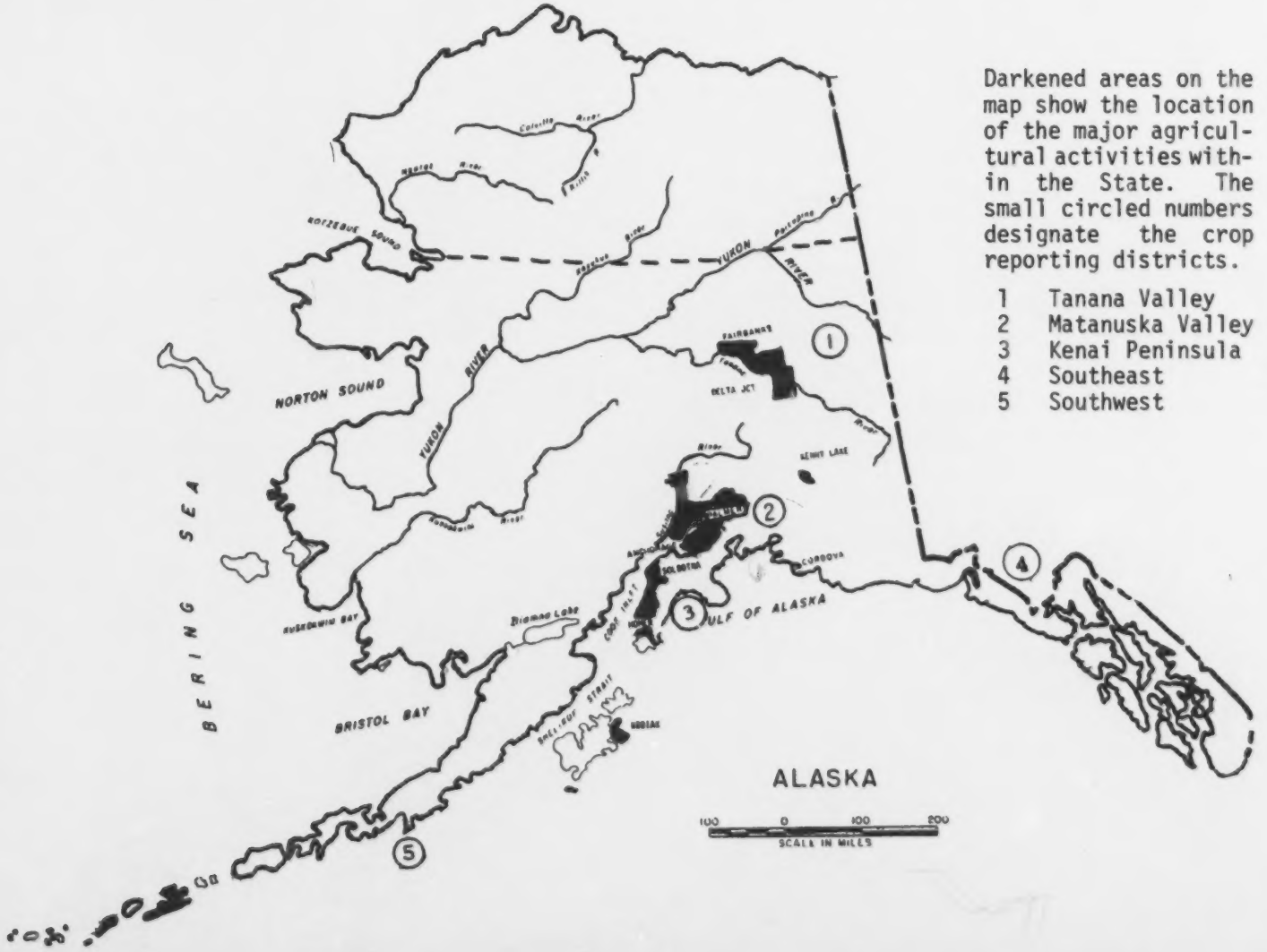

ALASKA AGRICULTURAL STATISTICS

1981

COMPILED BY

ALASKA CROP AND LIVESTOCK REPORTING SERVICE

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Dear Friends of Agriculture:

Welcome again to the annual publication of Alaska Agricultural Statistics, the story of Alaska's year in Agriculture. This publication is a joint effort of the Alaska Division of Agriculture, the University of Alaska Agricultural Experiment Station under the direction of Dr. James Drew; the University of Alaska Extension Service headed by Dr. James Matthews and the USDA, Economics and Statistics Service with Kenneth R. Farrell, Administrator. A special note of thanks to the Alaska Office of the ESS and their fine staff headed by Delon Brown for the increasingly complex task, ably performed, of collecting the materials for the booklet.

As is often the case with statistics, they do not tell the whole story of Alaska's agricultural year. While we are seeing some statistical evidence of the State's increasing emphasis on development of the industry, a significant increase in production stemming from those efforts will only just this year begin to be seen. Those increases should certainly be manifest in next year's numbers. In addition, the efforts of the State, the University of Alaska, and the U.S. Department of Agriculture in collection of basic resource data, in assimilating that data and using it for land planning, and in planning for the future expansion will not be revealed by these statistics. Such efforts are considerable and much appreciated. Most importantly, the efforts of the individual farmer in converting raw land to producing acres is certainly understated.

Fortunately, these numbers do show that our agriculture is healthy, that it is contributing to the general health of the State and its people, and that we are making some progress.

Sincerely,

Domonic L. Carney

Domonic L. Carney
Director

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FORWARD

The 1981 annual "Alaska Agricultural Statistics" publication presents a summary of data collected and published throughout the year with historical comparisons. The Crop and Livestock Reporting Service of the U. S. Department of Agriculture was launched in 1866. The office of the Alaska Crop and Livestock Reporting Service in Palmer was established nearly one-hundred years later in 1960.

Agriculture production in Alaska is still confined to relatively small areas of the State's total acreage (see inside front cover). The availability of new agricultural land continues to be tight. However, state land sales since 1978 has placed over 90,000 acres of potential agriculture land into private ownership. Most of this acreage is in the Delta Junction area with tracts of land ranging up to 3,200 acres for the purpose of grain farming.

This publication continues the series of "Alaska Agricultural Statistics," started in 1960 and includes the latest information on Alaska's agriculture.

In general, this report shows district and state data for the crop years 1975-80; Hog and Poultry data for December 1, 1975-80; and Cattle and Sheep numbers for January 1, 1976-81. Estimates for 1980 are preliminary. Revisions made in this publication were based on the 1978 Census of Agriculture or new information made available since the original estimates were prepared.

The response to our surveys has been gratifying. I want to say a special "thank you" to the many farmers, ranchers, and agri-businessmen who assisted us by providing basic data about the State's agriculture. You may be assured, we have kept our pledge of confidentiality of reported data. The return of questionnaires from our surveys were the basis from which the estimates in this publication were prepared. I would also like to thank the other Federal and State agencies for their continued support.

Weather data was obtained from the NOAA, Environmental Data Service of the National Climatic Center, Asheville, North Carolina.

DeLon A. Brown
Statistician in Charge

REPORTS AVAILABLE FROM: Alaska Crop & Livestock Reporting Service
P.O. Box 799 Palmer, Alaska 99645

___ Alaska Farm Reporter - monthly (latest crop & livestock information)

___ Weekly Crop-Weather (May 1 through October 1)

___ Farmline - monthly (U.S. information)

REPORTS AVAILABLE FROM: Alaska State Division of Agriculture
Pouch "A" Wasilla, Alaska 99687

___ Alaska Agriculture Market Report (weekly)

REPORTS AVAILABLE FROM: Agricultural Experiment Station, UA
P.O. Box 95151 Fairbanks, Alaska 99701

____Agroborealis (annual report on research activities)

"NORTH TO THE FUTURE"

Alaska was officially proclaimed the 49th state on January 3, 1959. The 1980 estimated population was 400,481, of which Indians, Aleuts and Eskimos comprise about one-sixth.

Alaska is one-fifth the size of continental United States (see back cover); is as large as Texas, California and Montana combined; has 33,000 miles of coastline (more than all of the "lower 48"); has more than 3 million lakes over 20 acres in size; and, has about 40 percent of the USA's fresh water. Alaska has 4 time zones--Pacific, Yukon, Alaska and Bering.

The total land area of Alaska is approximately 375 million acres, of which 1.3 million acres were listed as land in farms in the 1978 U. S. Census of Agriculture. Most of the land in farms consists of grazing lands leased from the State and the U.S. Government, mainly in the Southwest and West.

Excluding the acreage in the large grazing leases, approximately 138,000 acres are included in land in farms. Crops were harvested from over 30,000 acres in 1980, the balance was in pasture and uncleared lands. Very few farms have been entirely cleared of brush and trees. Alaska has over 20 million acres of potential tillable farm land, plus another 18 million suitable for potential livestock grazing and an additional 100 million acres suitable for reindeer and musk ox production. The number of farms in Alaska increased from 12 farms in 1900 to a peak of 623 in 1939, and declined to an estimated 290 farms on January 1, 1978. The number of farms in Alaska is once again starting to increase with an estimated 380 farms on January 1, 1981.

Eventhough agriculture production in Alaska is relatively small, the state with the midnight sun produces some of the largest and tastiest vegetables and crops with the highest protein in the nation.

FARM LABOR - ALASKA JULY 1975-80

Year	Farm Wage Hourly Rate	Hired Workers	Family Workers	Total Workers
	- Dollars -	- - - - Numbers - - - -		
1975 1/	3.50	300	600	900
1976	N/A	N/A	N/A	N/A
1977	4.86	300	530	830
1978	4.50	540	575	1,115
1979	4.65	630	635	1,265
1980	5.20	520	440	960

1/ Survey conducted in June.

AGRICULTURAL COMMODITIES PRODUCED - ALASKA (Selected Years)

Commodity		1960	1965	1970	1975	1979	1980
		- - - - - - - - - - thousand units - - - - - - - - - -					
				CROP PRODUCTION			
OATS FOR GRAIN	Bu.	79.8	42.0	22.5	16.8	15.6	26.1
BARLEY FOR GRAIN	Bu.	87.4	67.2	46.5	70.0	287.0	339.0
ALL SILAGE	Tons	20.2	21.7	13.6	15.2	12.4	12.4
GRAIN SILAGE	Tons	15.8	17.7	7.4	4.8	4.2	4.7
GRASS SILAGE	Tons	4.4	4.0	6.2	10.4	8.2	7.7
ALL HAY	Tons	10.5	8.8	9.4	21.4	15.8	15.0
GRAIN HAY	Tons	2.5	2.2	1.5	7.1	1.6	2.7
GRASS HAY	Tons	8.0	6.6	7.9	14.3	14.2	12.3
POTATOES	Cwt.	131.4	131.0	106.8	108.7	85.0	77.0
CABBAGE	Cwt.	3.6	3.0	3.5	3.0	4.0	4.1
LETTUCE	Cwt.	6.2	6.5	7.9	9.5	13.6	11.3
CARROTS	Cwt.	7.6	2.9	1.5	2.0	2.4	3.3
OTHER VEGETABLES	Cwt.	2.8	2.1	3.0	1.8	3.5	4.6
				LIVESTOCK AND POULTRY PRODUCTS			
EGGS	Doz.	529.8	766.7	408.0	417.0	558.0	367.0
POULTRY	Lbs.	55.0	89.0	73.0	167.0	170.0	172.0
BEEF	Lbs.	357.0	824.0	963.0	664.0	748.0	767.0
PORK	Lbs.	151.0	205.0	135.0	150.0	221.0	232.0
MUTTON	Lbs.	12.0	28.0	52.0	30.0	24.0	18.0
WOOL	Lbs.	125.0	209.0	239.0	67.0	32.0	38.0
REINDEER	Lbs.	450.0	637.0	615.0	345.0	NA	NA
		- - - - - - - - - - million units - - - - - - - - - -					
MILK	Lbs.	20.4	20.7	18.6	16.8	13.0	12.5

LIVESTOCK AND POULTRY ON FARMS (By Class) - ALASKA JANUARY 1 (Selected Years)

Class	1961	1970	1975	1980	1981
ALL CATTLE AND CALVES	7,300	8,700	9,700	8,400	8,400
Cows That Have Calved	4,200	4,400	4,400	3,600	3,600
Beef Cows	1,400	2,600	2,800	2,500	2,500
Milk Cows	2,800	1,800	1,600	1,100	1,100
Heifers 500 Pounds +	1,000	1,100	1,200	1,300	1,400
Beef Cow Replacement	400	600	600	800	900
Milk Cow Replacement	600	500	600	500	500
Steers 500 Pounds +	600	800	600	400	600
Bulls 500 Pounds +	200	400	1,000	1,200	1,000
Calves Under 500 Pounds	1,300	2,000	2,500	1,900	1,800
ALL SHEEP AND LAMBS	15,000	27,000	12,400	4,300	3,900
Ewe Lambs	2,000	3,000	1,000	400	300
Wether and Ram Lambs	2,000	2,000	1,000	300	300
Ewes 1 Year +	6,000	11,000	6,000	2,300	2,000
Wether and Rams 1 Year +	5,000	11,000	4,400	1,300	1,300
ALL HOGS AND PIGS 1/	1,000	1,100	800	1,800	-
Slaughter Hogs and Pigs	NA	700	500	1,300	-
Breeding Hogs	NA	400	300	500	-
ALL CHICKENS 1/	42,000	26,000	26,000	35,000	-
HPLA	41,000	23,000	25,000	22,000	-
Other Chickens	1,000	3,000	1,000	13,000	-

1/ Inventory as of January 1, 1961; as of December 1, 1970-80

VALUE OF PRODUCTION BY AREAS - ALASKA (Selected Years) 1/

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East	South-West	State Total
	dollars					
			CROPS			
1960	560,100	1,672,600	132,100	32,300	18,900	2,416,000
1965	638,600	1,285,200	124,500	20,800	17,900	2,087,000
1975	1,389,900	3,501,500	434,600	-	13,000	5,339,000
1976	1,071,500	3,163,500	297,000	-	14,000	4,546,000
1977	1,109,500	3,883,500	499,000	-	14,000	5,506,000
1978	1,404,500	3,433,500	377,000	-	14,000	5,229,000
1979	1,285,000	3,543,000	286,000	-	22,000	5,136,000
1980	1,889,500	3,467,000	371,000	-	60,000	5,787,500
			LIVESTOCK AND POULTRY			
1960	448,500	2,116,800	177,500	264,400	140,200	3.147,400
1965	357,200	2,115,300	403,400	114,800	221,300	3,212,000
1975	400,800	3,100,900	71,500	9,900	302,900	3,886,000
1976	460,500	3,324,600	110,200	9,400	353,300	4,258,000
1977	492,800	3,421,400	102,200	12,200	255,400	4,284,000
1978	476,400	3,147,000	117,300	16,500	283,800	4,041,000
1979	494,500	3,072,400	197,100	21,600	316,400	4,102,000
1980	354,900	2,973,000	231,700	16,200	296,200	3,872,000
			TOTAL			
1960	1,008,600	3,789,400	309,600	296,700	159,100	5,563,400
1965	995,800	3,400,500	527,900	135,600	239,200	5,299,000
1975	1,790,700	6,602,400	506,100	9,900	315,900	9,225,000
1976	1,532,000	6,488,100	407,200	9,400	367,300	8,804,000
1977	1,602,300	7,304,900	601,200	12,200	269,400	9,790,000
1978	1,880,900	6,580,500	494,300	16,500	297,800	9,270,000
1979	1,779,500	6,615,400	483,100	21,600	338,400	9,238,000
1980	2,244,400	6,440,000	602,700	16,200	356,200	9,659,500

1/ Includes only crop and livestock commodities in this bulletin.

FARM COMMODITY CASH RECEIPTS - ALASKA 1976-80

Item	1976	1977	1978	1979	1980 1/
	- - - - - - - - thousand dollars - - - - - - - - -				
TOTAL ALL COMMODITIES	10,160	11,461	11,508	12,057	11,683
Total Livestock Products	4,383	4,480	4,220	4,135	4,045
All Meat Animals	498	456	602	560	550
Cattle and Calves	403	298	367	334	324
Sheep and Lambs	4	7	11	7	5
Hogs and Pigs	91	151	224	219	221
All Dairy Products	2,725	2,814	2,463	2,160	2,118
Milk Wholesale	2,578	2,688	2,370	2,083	1,978
Milk Retail	147	126	93	77	140
All Poultry and Eggs	564	611	477	684	425
Poultry	11	11	9	15	12
Eggs	553	600	468	669	413
All Miscellaneous Livestock	596	599	678	731	952
Wool	45	33	21	29	32
Other Livestock 2/	551	566	657	702	920
Total All Crops	5,777	6,981	7,288	7,922	7,638.5
All Feed Crops	1,751	1,791	1,862	1,792	1,853
Barley	217	364	496	783	855
Hay	1,513	1,391	1,326	988	952
Oats	21	36	40	21	16
All Vegetables	1,296	1,223	1,247	1,408	1,704.5
Potatoes	870	805	736	775	1,091
Miscellaneous Vegetables	426	418	511	633	613.5
Berries	16	17	20	25	25
All Other Crops 3/	2,714	3,950	4,159	4,697	4,056

1/ Preliminary. 2/ Includes horses, reindeer, goats, honey, rabbits, mink,and other livestock and products. 3/ Includes greenhouse, nursery, seed and other field crops not mentioned above, and forest products.

LAND IN FARMS AND FARM NUMBERS - ALASKA 1960-81

Year	Land In Farms	Total All Farms	Number of Farms				
			Cattle	Dairy	Chickens	Hogs	Sheep
	(000 Acres)						
1960	1,635	420	210	150	NA	NA	NA
1965	1,900	370	190	110	80	30	NA
1970	1,710	320	160	90	70	40	20
1971	1,710	320	160	90	70	40	20
1972	1,700	320	150	80	70	40	20
1973	1,700	320	140	70	70	40	20
1974	1,680	290	140	70	70	40	20
1975 1/	1,670	300	140	60	80	40	10
1976	1,670	310	140	60	80	40	10
1977	1,670	330	140	60	80	40	10
1978	1,600	350	140	60	80	50	20
1979	1,500	360	140	60	90	50	20
1980	1,520	370	150	60	100	60	20
1981 2/	1,520	380					

1/ Farm redefined: Farms and ranches with annual sales of $1,000 or more.

2/ Preliminary.

TAXES LEVIED ON FARM REAL ESTATE - (Selected Years)

Item	1960	1965	1970	1975	1979
ALASKA					
Per Acre (dollars)	1.81	3.08	3.58	4.08	5.17
Per $100 Full Value (dollars)	1.02	1.45	1.83	1.05	.92
Total Taxes (thousand dollars)	100	200	300	400	500
UNITED STATES					
Per Acre (dollars)	1.21	1.53	2.27	2.90	3.57
Per $100 Full Value (dollars)	.97	.98	1.08	.80	-.60
Total Taxes (million dollars)	1,243	1,536	2,169	2,655	3,233

SOURCE: ESS, USDA, Statistical Bulletin No. 666.

GROSS AND NET INCOME FROM FARMING - ALASKA (Selected Years) 1/

Item	1960	1965	1970	1975	1979 2/
	- - - - - - - million dollars - - - - - - -				
Realized Gross Farm Income					
Receipts From Farm Marketings	4.2	4.3	4.7	9.5	12.4
Government Payments	.1	.1	.1	.1	.3
Non-Money Income	.5	.4	.9	.9	1.4
Other Farm Income	3/	.1	3/	.1	.2
Total	4.8	5.0	5.7	10.6	14.2
Farm Production Expenses	3.9	4.7	4.2	6.7	11.6
Net Farm Income 4/					
Before Inventory Adjustment	.8	.3	1.5	3.9	2.6
Inventory Adjustment	.6	.1	-.1	-.6	-.1
After Inventory	1.5	.4	1.4	3.3	2.5
Income Per Farm					
Realized Gross (dollars)	11,355	13,441	17,716	34,077	39,572
Realized Net (dollars)	2,000	735	4,681	12,481	7,222
Total Net (dollars)	3,469	1,003	4,306	10,590	6,981

1/ Details may not add to totals due to rounding. 2/ Based on the 1974 Census of Agriculture definition of a farm which is a farm with sales of $1,000 or more.
3/ Less than 0.05. 4/ Of farm operators.

SOURCE: ESS, USDA, Statisticsl Bulletin No. 661.

FARM PRODUCTION EXPENSES - ALASKA (Selected Years)

Item	1960	1965	1970	1975	1979
	- - - - - million dollars - - - - -				
Current Farm Operating Expenses					
Feed	.8	1.1	.9	1.1	1.1
Livestock	6/	.1	6/	6/	6/
Seed 1/	.1	.1	.1	.2	.4
Fertilizer and Lime	.6	.5	.4	.8	.9
Repairs and Operation of Capital Items 2/	.5	.6	.6	.8	1.7
Hired Labor 3/	.5	.6	.5	.9	2.9
Miscellaneous 4/	.2	.3	.5	.7	1.5
Total Current Expenses	2.8	3.2	2.9	4.5	8.6
Depreciation and Other Capital Consumption 5/	.5	.6	.7	.8	1.7
Taxes on Farm Property	.3	.3	.3	.8	.8
Interest on Farm Mortgage Debt	.2	.4	.4	.4	.3
Net Rent to Non-Operator Landlords	.1	.1	6/	.1	.2
Total Production Expenses	3.8	4.6	4.4	6.7	11.6

1/ Includes bulbs, plants and trees

2/ Repairs and maintenance of buildings; repairs and operation of motor vehicles and other machinery, and petroleum fuel and oil used in the farm business.

3/ Includes cash wages, perquisites, and social security taxes paid by employers.

4/ Includes short term interest, pesticides, electricity, and telephone (business share); livestock marketing services (excluding feed and transportation), containers, milk hauling, irrigation, grazing fees, harness and saddlery, blacksmithing and hardware; veternarian services and medicines; net insurance premiums (crop, fire, wind and hail); machine hire and custom work and miscellaneous supplies for dairy, nursery, greenhouse, poultry, small hand tools, and other.

5/ Includes depreciation and accidental damage to farm buildings and depreciation of motor vehicles and other farm machinery and equipment.

6/ Less than 0.05.

SOURCE: ESS, USDA, Statistical Bulletin No. 661.

CIVILIAN PER CAPITA CONSUMPTION OF MAJOR FOOD COMMODITIES - U.S.

Commodity	1960	1970	1975	1978	1979 1/
Meats	160.9	192.6	182.4	186.1	181.3
Beef	85.1	113.7	120.1	120.1	107.6
Veal	6.1	2.9	4.2	3.0	2.0
Lamb and mutton	4.8	3.3	2.0	1.6	1.5
Pork	64.9	72.7	56.1	61.4	70.2
Fish	13.2	15.8	16.6	17.9	17.6
Poultry Products:					
Eggs	42.4	39.5	35.4	35.3	35.9
Chicken (ready-to cook)	28.0	40.5	40.6	47.5	51.5
Turkey (ready-to-cook)	6.1	8.0	8.6	9.3	10.1
Dairy Products:					
Cheese	8.3	11.5	14.5	17.2	17.6
Fluid milk and cream	322	264	246	239	237
Ice cream	18.3	17.7	18.7	17.7	17.6
Fats and Oils (total fat content)	48.6	56.1	56.6	58.6	61.2
Butter (actual weight)	7.5	5.3	4.8	4.5	4.5
Margarine (actual weight)	9.4	11.0	11.2	11.4	11.5
Shortening	12.6	17.3	17.3	18.2	18.9
Other edible fats and oils	11.5	18.2	20.3	22.6	23.4
Fruits:					
Fresh	93.4	81.4	84.4	83.3	86.5
Citrus	33.7	28.8	29.7	27.0	24.8
Non-citrus	59.7	52.6	54.7	56.3	61.7
Processed:					
Canned fruit	23.0	23.7	19.6	19.3	18.8
Canned juice	15.1	19.2	20.6	23.0	22.9
Frozen	9.1	9.9	14.2	12.7	12.8
Dried	3.1	2.7	3.0	2.2	3.1
Vegetables:					
Fresh	105.7	98.8	99.0	100.4	103.8
Canned	43.4	51.1	52.4	52.8	53.5
Frozen	7.0	9.7	9.7	10.9	11.5
Potatoes	97.7	83.3	82.7	81.1	81.8
Grains:					
Wheat flour	118.0	110.0	113.0	114.0	116.0
Rice	6.1	6.7	7.7	5.8	9.2
Other:					
Coffee	11.6	10.4	9.4	7.9	8.6
Tea	.6	.7	.8	.7	.7
Cocoa	2.9	3.1	2.6	2.7	2.6
Sugar refined	97.3	101.8	90.2	93.1	91.3

1/ Preliminary SOURCE: ESS, USDA, Agricultural Statistics, 1980

ALASKA'S 1980 CROP SEASON

MATANUSKA VALLEY: Warm, windy weather in late April helped firm up ground conditions. Small grain seeding and potato planting started to become wide-spread throughout the lower elevations of the Valley by early May. Virtually all oats and barley seeded for grain and potatoes were planted by late May. Commercial vegetable growers started planting hardy vegetables in early to mid-April. Dry windy conditions slowed emergence and growth of all crops during May. Weather in early June was cool and cloudy, turning to wet and cloudy for the remainder of the month. Crop growth was moderate to rapid during late June, but still behind normal. Hayfields headed early due to dry conditions. First cutting started on a few fields in mid-June, but inclement weather kept progress behind normal during all of July and early August. Many growers only harvested one cutting due to the lateness of the first crop. Vegetable harvest started around July 20. Topsoil moisture supplies were generally adequate to surplus, from July 3 through the remainder of the season. Good supplies of vegetables were available through early September when the first hard frost of the season occurred. Small grain development was slow and behind normal throughout the season. Combining was delayed until mid - September when normally combining is generally wrapped up. Barley harvesting was only 60 percent complete by October 1; potato harvesting started in mid-September, but most growers were finished digging by October 1.

TANANA VALLEY: In the absence of snow, dry conditions throughout most of the Valley enabled farmers to work fields early in April. However, dry soils slowed fieldwork and seeding progress until early May. Most barley seeding was finished by June 1 and early fields had emerged. Cool temperatures and dry conditions prevailed until mid-June when temperatures warmed; intermittent sunshine aided crop growth. Haying didn't become general until mid-July and was generally complete on most farms by early August. Soil moisture varied from short in the Fairbanks area to surplus in the Salcha area in early August. An early August frost occurred in the Salcha and Clearwater areas. Cool temperatures slowed crop development of small grains and very little combining started before mid-September. An early September snowfall, below normal temperatures, and intermittent showers kept fieldwork at a minimum. Combining was slow due to the high moisture content of grain, and poor drying conditions. Harvest was finally completed during early November.

KENAI PENINSULA: Farmers began fieldwork as soon as the soil firmed after mid-May. Moisture supplies were generally adequate to surplus on June 1 and hayfields were starting to green up. Crop growth continued at a moderate pace during mid - June. Haying operations started during mid-July, although wet conditions slowed the curing process in some areas. Rain delayed final hay harvesting until late August. A heavy killing frost occurred in early September. All potato and vegetable harvesting was virtually complete before October 1.

1980 HARVESTED ACRES

1.	Barley Grain	39.4%
2.	Grass Hay	35.6%
3.	Grain Hay	8.2%
4.	Grain Silage	6.5%
5.	Grass Silage	5.8%
6.	Potatoes and Vegetables	2.4%
7.	Oats Grain	2.1%

CLIMATE OF THE PRINCIPAL AGRICULTURAL AREAS (at a glance) - ALASKA

Area	Extremes		Averages For The Growing Season Only 1/					
	High °F	Low °F	Start Date	Length Days 1/	Max. °F	Min. °F	Rain Inches	Daylight 2/ Hours
TANANA VALLEY								
Fairbanks	96	-66	6/2	84	61	44	8	9-21
Big Delta	92	-63	6/5	81	59	44	9	10-20
MATANUSKA AREA								
Anchorage	86	-38	5/27	102	58	48	9	8-19
Palmer	90	-35	6/4	89	58	48	11	10-19
Matanuska	91	-41	6/6	83	58	48	10	9-19
KENAI PENINSULA								
Homer	81	-17	6/12	94	52	47	13	8-17
Kenai	87	-48	6/17	72	61	45	6	7-17
OTHER AREAS								
Kodiak	86	-8	6/2	110	54	45	26	5-15

1/ Based on temperatures of 40° and above.

2/ The first value is average actual hours of daylight; the second figure gives the possible hours of daylight.

AVERAGE FORAGE PRODUCTION COSTS PER ACRE AND PER TON OF FORAGE PRODUCED - MATANUSKA VALLEY, ALASKA 1979

Item	Cost Per Acre 1/	Cost Per Ton 1/
Hay	$209.09	$87.12
Grass Silage	205.72	42.68
Grain Silage	191.58	31.15
Grass Green Chop	204.11	42.35
Grain Green Chop	190.90	31.04

1/ Includes a land charge of $24.86 per acre.

ALASKA CROP SUMMARY

BARLEY was planted on 14,000 acres in 1980, 7,500 acres more than in 1979. Growers harvested 13,000 acres of which 11,500 acres were harvested for grain. Production of Barley For Grain was 339,000 bushels, 52,000 bushels above 1979, and the largest barley production on record. Yield averaged 29.5 bushels or 14.2 cwt. per acre. Value of the 1980 crop, at $1,017,000, was $156,000 above the previous year.

OAT growers planted 3,100 acres of oats, 1,900 acres more than 1979. Growers harvested 2,900 acres, 1,800 above last year's level. Most of the oat acreage is harvested as hay and a large part is fed as bundles to horses in the State.

Oats for Grain was harvested from 600 acres, up from 300 acres harvested in 1979. Production at 26,100 bushels was up 10,500 bushels from the 1979 production. The State's yield averaged 43.5 bushels or 13.9 cwt. per acre. Value of the 1980 crop at $81,000 was $40,000 above the previous year.

MIXED GRAINS for hay and silage were harvested from 500 acres, unchanged from 1979; the smallest acreage on record. Production is included with hay and silage data.

ALL HAY production of 15,000 tons was off 800 tons from the 1979 production. The state average yield at 1.17 tons per acre, compares with 1.46 tons in 1979. The 1980 crop was harvested from 12,800 acres, up from 10,800 acres a year earlier. Production value of all hay at $2,100,000 was up $46,000 from the previous year and was the seventh year in succession that it exceeded two million dollars. Grass Hay was harvested from 10,400 acres, 600 acres more than in 1979.

Production of 12,300 tons of grass hay was 1,900 tons below the 1979 level. Seeded grass hay--brome, timothy, etc.--was harvested mostly in the Tanana and Matanuska Valleys. Native grasses make up most of the Southwest District and Kenai Peninsula hay production.

Grain Hay, mostly oat hay, was harvested from 2,400 acres, up 1,400 acres from the previous year. Production totaled 2,700 tons, 1,100 tons above the 1979 crop level.

ALL SILAGE production of 12,400 tons was unchanged from the previous year. A total of 3,600 acres of silage was harvested, up 1,200 acres from 1979, which was the smallest acreage of record. Grass Silage was harvested from 1,700 acres and produced 7,700 tons. Grain Silage produced 4,700 tons from 1,900 acres. Silage is produced mainly by the Grade A dairies in the Matanuska Valley. Production value of all silage at $484,000, was $7,000 more than a year ago.

POTATO production of 77,000 cwt., harvested from 460 acres, was 8,000 cwt. below 1979. Value of production at $1,463,000 was $417,000 above the 1979 crop.

VEGETABLES were harvested from 227 acres, 7 more than the previous year. Lettuce production of 11,300 cwt. was down 2,300 cwt. from the 1979 record crop. The 100 acres harvested was the largest lettuce acreage to be harvested in the State. The 4,100 cwt. of Cabbage produced was 100 cwt. more than in 1979 and was harvested from 27 acres. Carrot production totaled 3,300 cwt., 900 cwt. above 1979. Acres harvested at 28 was the largest acreage since 1968. Other Vegetables were harvested from 72 acres, 3 acres below the previous year. Value of all vegetables produced, excluding greenhouse vegetables, was $642,500, compared with $657,000 in 1979.

CROPS: RECORD ACREAGE, YIELD AND PRODUCTION - ALASKA 1960-80

Crop	Record	Harvested Acreage	Year	Yield Per Acre	Year	Production	Year
OATS FOR GRAIN (Bu.)	High	1,400	1960	80.0	1966	79,800	1960
	Low	200	1971	25.0	1974	10,000	1974
BARLEY FOR GRAIN (Bu.)	High	11,500	1980	51.5	1976	339,000	1980
	Low	1,100	1974	14.5	1971	30,000	1969
GRAIN HAY (ton)	High	3,600	1975	1.97	1975	7,100	1975
	Low	900	1968	.91	1969	1,000	1969
GRASS HAY (ton)	High	10,800	1975	1.68	1977	17,100	1977
	Low	5,000	1960	.90	1971	4,600	1971
ALL HAY (ton)	High	14,400	1975	1.67	1977 1/	21,400	1975
	Low	6,900	1960 2/	.95	1969	7,200	1971
GRAIN SILAGE (ton)	High	4,400	1963	6.10	1968	25,500	1963
	Low	700	1979	2.47	1980	3,900	1977
GRASS SILAGE (ton)	High	2,600	1962	5.78	1975	10,400	1975
	Low	1,200	1965	2.86	1966	4,000	1965 3/
ALL SILAGE (ton)	High	6,600	1963	5.26	1968	32,100	1963
	Low	2,400	1977	3.40	1969	10,200	1969
POTATOES (cwt.)	High	780	1965	222	1977	146,300	1961
	Low	460	1979 4/	115	1969	71,300	1969

1/ Equals 1978. 2/ Equals 1965. 3/ Equals 1966. 4/ Equals 1980.

CROPLAND UTILIZATION - ALASKA 1975

Crops	Tanana Valley	Matanuska Valley	Kenai Penin 1/	South-West 1/	State Total
			acres		
		PLANTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	130	400	20	-	550
Lettuce	10	80	-	-	90
Cabbage	8	17	-	-	25
Carrots	7	8	-	-	15
Other Vegetables	10	35	-	-	45
FEED CROPS					
All Oats	3,000	900	400	-	4,300
All Barley	300	1,200	100	-	1,600
Grain Mixtures	100	1,000	-	-	1,100
GRASSLAND HARVESTED					
Grass	2,300	8,500	1,650	150	12,600
TOTAL LAND IN CROPS	5,865	12,140	2,170	150	20,325
Percent of State Total	28.9	59.7	10.7	.7	100.0
		HARVESTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	120	390	20	-	530
Lettuce	9	76	-	-	85
Cabbage	8	17	-	-	25
Carrots	7	8	-	-	15
Other Vegetables	10	30	0	-	40
FEED CROPS					
Oats-All Purposes	2,650	850	400	-	3,900
Barley-All Purposes	250	1,200	50	-	1,500
Grain Mixtures	100	1,000	-	-	1,100
Grass	2,300	8,500	1,650	150	12,600
		FEED CROP UTILIZATION			
GRAIN					
Oats	250	150	-	-	400
Barley	250	1,200	50	-	1,500
HAY					
Grain	2,400	800	400	-	3,600
Grass	2,200	6,800	1,650	150	10,800
SILAGE					
Grain	100	900	-	-	1,000
Grass	100	1,700	-	-	1,800

1/ Dash indicates no crops or combined with other districts.

CROPLAND UTILIZATION - ALASKA 1980

Crops	Tanana Valley	Matanuska Valley	Kenai Penin 1/	South-West 1/	State Total
			acres		
		PLANTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	100	350	30	-	480
Lettuce	19	122	-	-	141
Cabbage	9	35	-	-	44
Carrots	7	24	-	-	31
Other Vegetables	16	68	4	-	88
FEED CROPS					
All Oats	2,100	600	400	-	3,100
All Barley	12,500	1,400	100	-	14,000
Grain Mixtures	50	450	-	-	500
GRASSLAND HARVESTED					
Grass	3,150	7,350	1,400	200	12,100
TOTAL LAND IN CROPS	17,951	10,399	1,934	200	30,484
Percent of State Total	58.9	34.1	6.3	.7	100.0
		HARVESTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	95	340	25	-	460
Lettuce	15	85	-	-	100
Cabbage	7	20	-	-	27
Carrots	7	21	-	-	28
Other Vegetables	14	55	3	-	72
FEED CROPS					
Oats-All Purposes	1,950	550	400	-	2,900
Barley-All Purposes	11,700	1,200	100	-	13,000
Grain Mixtures	50	450	-	-	500
Grass	3,150	7,350	1,400	200	12,100
		FEED CROP UTILIZATION			
GRAIN					
Oats	450	150	-	-	600
Barley	10,600	900	-	-	11,500
HAY					
Grain	1,800	450	150	-	2,400
Grass	3,100	5,800	1,300	200	10,400
SILAGE					
Grain	850	700	350	-	1,900
Grass	50	1,550	100	-	1,700

1/ Dash indicates no crops or combined with other districts.

FERTILIZER CONSUMPTION - ALASKA 1979-80

	1979	1980 [1]		1979	1980 [1]
	tons			tons	
Nitrogen:			COMPLETE FORMULAS		
Ammonium Nitrate	590	370	12-24-24	-	145
Urea	900	1590	15-4-4	-	40
Phosphates:			15-30-15	30	65
Treble Super Phosphate	-	15	16-16-16	130	440
Ammoniated Phosphate	55	60	18-18-18	50	-
Potash:			18-46-0	120	90
Muriate of Potash	100	45	20-10-10	440	210
Sulphate of Potash	10	75	20-20-10	60	390
			21-7-14	85	90
COMPLETE FORMULAS:			22-4-4	125	150
			22-11-11	480	820
5-25-30	-	85	22-17-8.5	-	430
6-28-28	55	35	23-3-7	-	65
7.7-36-15	300	140	26-13-13	30	-
8-32-15	40	-	28-14-7.2	-	180
3-32-16	930	1480	34-0-11	-	20
10-20-10	140	510	Miscellaneous [2]	100	80
10-20-20	430	980	TOTAL	5260	8600
11-55-0	60	-	Lime	950	1150

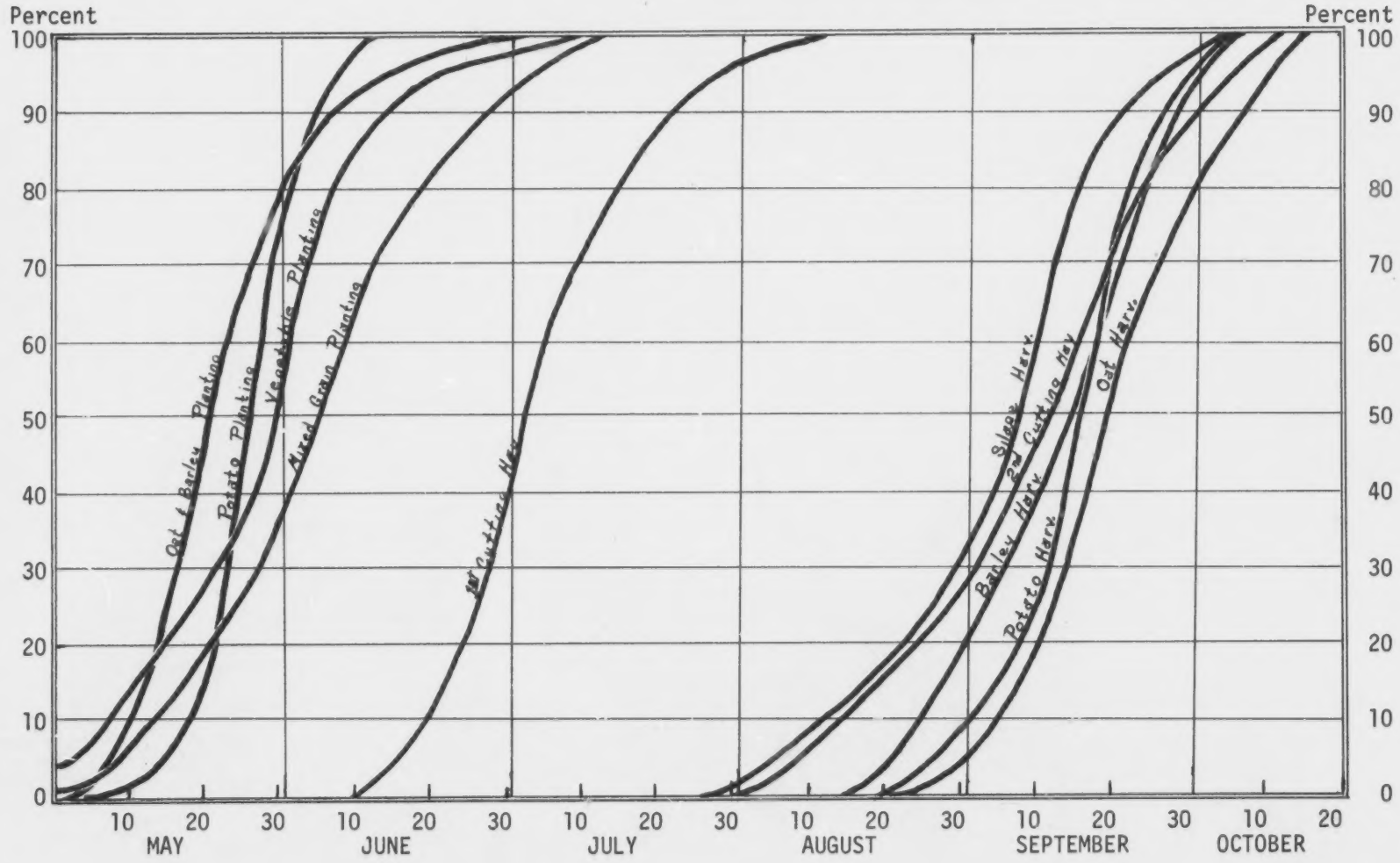
1/ Preliminary.

2/ Complete formulas of less than 20 tons combined under miscellaneous.

CONSUMPTION OF FERTILIZER AND PLANT NUTRIENTS - ALASKA 1975-80

Year Ended June 30	KIND OF FERTILIZER			
	Mixed Fertilizer	Primary Nutrient Material	Secondary and Micro-Nutrient	Total Fertilizer
	(tons)	(tons)		(tons)
1975	6,605	1,098	1	7,704
1976	3,380	1,376	0	4,756
1977	7,605	2,175	0	9,780
1978	4,185	1,245	0	5,430
1979	3,605	1,655	0	5,260
1980	6,445	2,155	0	8,600

AVERAGE PLANTING AND HARVESTING DATES
Percent Completion for Various Crops



BARLEY - ALASKA 1975-80

District	Year	Area Planted	Area Harvested for Grain				
			Acres	Yield	Production		
		Acres		Bu.	Bu. (000)	Cwt.	Value (000)
Tanana Valley	1975	300	250	21.7	5.4	2,600	23.4
	1976	157	175	34.3	6.0	2,900	26.0
	1977	1,350	1,300	47.6	61.9	29,700	240.0
	1978	2,500	2,450	33.9	83.1	39,900	310.0
	1979	4,400	4,080	45.6	186.0	89,300	536.0
	1980	12,500	10,600	29.2	309.6	148,600	904.0
Matanuska Valley	1975	1,200	1,200	52.4	62.9	30,200	255.0
	1976	1,175	1,125	54.2	61.0	29,300	235.0
	1977	1,720	1,300	49.3	64.1	30,800	239.0
	1978	1,710	1,550	43.2	66.9	32,100	260.0
	1979	2,050	1,720	58.7	101.0	48,500	325.0
	1980	1,400	900	32.7	29.4	14,100	113.0
Kenai Peninsula	1975	100	50	33.3	1.7	800	8.6
	1976	50	-	-	-	-	-
	1977	30	-	-	-	-	-
	1978	90	-	-	-	-	-
	1979	50	-	-	-	-	-
	1980	100	-	-	-	-	-
State Total	1975	1,600	1,500	47.0	70.0	33,600	287.0
	1976	1,400	1,300	51.5	67.0	32,200	261.0
	1977	3,100	2,600	48.5	126.0	60,500	479.0
	1978	4,300	4,000	37.5	150.0	72,000	570.0
	1979	6,500	5,800	49.5	287.0	137,800	861.0
	1980	14,000	11,500	29.5	339.0	162,700	1,017.0

OATS - ALASKA 1975-80

District	Year	Area Planted	Area Harvested for Grain				
			Acres	Yield	Production		
		Acres		Bu.	Bu. (000)	Cwt.	Value (000)
Tanana Valley	1975	3,000	250	37.2	9.3	3,000	24.5
	1976	2,900	250	39.2	9.8	3,100	24.5
	1977	1.500	300	44.8	13.4	4,300	35.5
	1978	2,000	450	48.6	21.9	7,000	57.5
	1979	400	150	54.2	8.1	2,600	19.0
	1980	2,100	450	42.9	19.3	6,200	52.0
Matanuska Valley	1975	900	150	50.0	7.5	2,400	19.5
	1976	700	50	43.8	2.2	700	5.5
	1977	800	100	62.0	6.2	2,000	15.5
	1978	600	150	45.8	6.9	2,200	21.5
	1979	500	150	50.0	7.5	2,400	22.0
	1980	600	150	45.3	6.8	2,200	29.0
Kenai Peninsula	1975	400	-	-	-	-	-
	1976	400	-	-	-	-	-
	1977	500	-	-	-	-	-
	1978	500	-	-	-	-	-
	1979	300	-	-	-	-	-
	1980	400	-	-	-	-	-
State Total	1975	4,300	400	42.0	16.8	5,400	44.0
	1976	4,000	300	40.0	12.0	3,800	30.0
	1977	2,800	400	49.0	19.6	6,300	51.0
	1978	3,100	600	48.0	28.8	9,200	79.0
	1979	1,200	300	52.0	15.6	5,000	41.0
	1980	3,100	600	43.5	26.1	8,400	81.0

HAY - ALASKA 1975-80

District	Year	Area Harvested	Production Tons	Production Value (000)	Area Harvested	Production Tons	Production Value (000)
		GRAIN HAY 1/			GRASS HAY		
Tanana Valley	1975	2,400	5,500	663.0	2,200	2,400	316.0
	1976	2,250	4,700	533.0	2,100	2,100	255.0
	1977	1,100	1,900	218.0	2,500	3,100	417.0
	1978	1,450	3,000	333.0	2,400	2,900	378.0
	1979	400	700	88.0	2,600	2,400	292.0
	1980	1,800	2,000	270.0	3,100	2,200	310.0
Matanuska Valley	1975	800	1,200	150.0	6,800	9,800	1,270.0
	1976	650	1,000	98.0	6,700	8,800	1,170.0
	1977	470	800	85.0	6,100	11,800	1,585.0
	1978	400	900	93.0	6,200	11,000	1,485.0
	1979	300	600	84.0	5,900	10,100	1,336.0
	1980	450	500	66.0	5,800	7,900	1,094.0
Kenai Peninsula	1975	400	400	62.0	1,650	2,000	308.0
	1976	400	400	40.0	1,500	1,500	215.0
	1977	530	800	112.0	1,500	2,100	350.0
	1978	450	800	108.0	1,200	1,700	241.0
	1979	300	300	41.0	1,100	1,500	191.0
	1980	150	200	25.0	1,300	1,800	275.0
Southwest 2/	1975	-	-	-	150	100	13.0
	1976	-	-	-	100	100	14.0
	1977	-	-	-	100	100	14.0
	1978	-	-	-	100	100	14.0
	1979	-	-	-	200	200	22.0
	1980	-	-	-	200	400	60.0
State Total	1975	3,600	7,100	875.0	10,800	14,300	1,907.0
	1976	3,300	6,100	671.0	10,400	12,500	1,654.0
	1977	2,100	3,500	415.0	10,200	17,100	2,366.0
	1978	2,300	4,700	534.0	9,900	15,700	2,118.0
	1979	1,000	1,600	213.0	9,800	14,200	1,841.0
	1980	2,400	2,700	361.0	10,400	12,300	1,739.0

1/ Includes mixed grains, oats and barley. 2/ Includes Southeast.

ALL HAY - ALASKA 1975-80

District	Year	Area Harvested	Yield Tons	Production Tons	Production Value (000)
Tanana Valley	1975	4,600	1.72	7,900	979.0
	1976	4,350	1.56	6,800	788.0
	1977	3,600	1.39	5,000	635.0
	1978	3,850	1.53	5,900	711.0
	1979	3,000	1.03	3,100	380.0
	1980	4,900	.86	4,200	580.0
Matanuska Valley	1975	7,600	1.45	11,000	1,420.0
	1976	7,350	1.33	9,800	1,268.0
	1977	6,570	1.92	12,600	1,670.0
	1978	6,600	1.80	11,900	1,578.0
	1979	6,200	1.73	10,700	1,420.0
	1980	6,250	1.34	8,400	1,160.0
Kenai Peninsula	1975	2,050	1.17	2,400	370.0
	1976	1,900	1.00	1,900	255.0
	1977	2,030	1.43	2,900	462.0
	1978	1,650	1.52	2,500	349.0
	1979	1,400	1.29	1,800	232.0
	1980	1,450	1.38	2,000	300.0
Southwest 1/	1975	150	.67	100	13.0
	1976	100	1.00	100	14.0
	1977	100	1.00	100	14.0
	1978	100	1.00	100	14.0
	1979	200	1.00	200	22.0
	1980	200	2.00	400	60.0
State Total	1975	14,400	1.49	21,000	2,782.0
	1976	13,700	1.36	18,600	2,325.0
	1977	12,300	1.67	20,600	2,781.0
	1978	12,200	1.67	20,400	2,652.0
	1979	10,800	1.46	15,800	2,054.0
	1980	12,800	1.17	15,000	2,100.0

1/ Includes Southeast.

SILAGE - ALASKA 1975-80

District	Year	Area Harvested	Production Tons	Production Value (000)	Area Harvested	Production Tons	Production Value (000)
			GRAIN 1/			GRASS	
Tanana Valley	1975	100	700	24.5	100	800	28.0
	1976	50	300	11.0	70	400	14.0
	1977	-	-	-	50	200	8.0
	1978	70	300	10.0	-	-	-
	1979	-	-	-	-	-	-
	1980	850	1,000	38.0	50	100	4.0
Matanuska Valley	1975	900	4,100	143.5	1,700	9,600	336.0
	1976	850	3,900	137.0	1,400	6,200	217.0
	1977	1,000	3,900	148.0	1,350	7,500	277.0
	1978	780	4,800	182.0	1,500	6,800	258.0
	1979	650	4,000	154.0	1,700	8,200	316.0
	1980	700	3,000	108.0	1,550	7,400	303.0
Kenai Peninsula	1975	-	-	-	-	-	-
	1976	100	300	9.0	30	100	3.0
	1977	-	-	-	-	-	-
	1978	50	200	7.0	-	-	-
	1979	50	200	7.0	-	-	-
	1980	350	700	24.0	100	200	7.0
State Total	1975	1,000	4,800	168.0	1,800	10,400	364.0
	1976	1,000	4,500	157.0	1,500	6,700	234.0
	1977	1,000	3,900	148.0	1,400	7,700	285.0
	1978	900	5,300	199.0	1,500	6,800	258.0
	1979	700	4,200	161.0	1,700	8,200	316.0
	1980	1,900	4,700	170.0	1,700	7,700	314.0

1/ Includes mixed grains, oats and barley.

ALL SILAGE - ALASKA 1975-80 1/

District	Year	Area Harvested	Yield Tons	Production Tons	Production Value (000)
Tanana Valley	1975	200	7.50	1,500	52.5
	1976	120	5.83	700	25.0
	1977	50	4.00	200	8.0
	1978	70	4.29	300	10.0
	1979	-	-	-	-
	1980	900	1.22	1,100	42.0
Matanuska Valley	1975	2,600	5.27	13,700	479.5
	1976	2,250	4.49	10,100	354.0
	1977	2,350	4.85	11,400	425.0
	1978	2,280	5.09	11,600	440.0
	1979	2,350	5.19	12,200	470.0
	1980	2,250	4.62	10,400	411.0
Kenai Peninsula	1975	-	-	-	-
	1976	130	3.08	400	12.0
	1977	-	-	-	-
	1978	50	4.00	200	7.0
	1979	50	4.00	200	7.0
	1980	450	2.00	900	31.0
State Total	1975	2,800	5.43	15,200	532.0
	1976	2,500	4.48	11,200	391.0
	1977	2,400	4.83	11,600	433.0
	1978	2,400	5.04	12,100	457.0
	1979	2,400	5.17	12,400	477.0
	1980	3,600	3.44	12,400	484.0

1/ Dash indicates no crop produced or combined with other districts.

MIXED GRAINS [1/] (All Purposes)

ALASKA 1975-80

District	Year	Area Planted	Area Harvested
	1975	100	100
	1976 [2/]	100	100
Tanana	1977	100	100
Valley	1978	50	50
	1979	100	100
	1980	50	50
	1975	1,000	1,000
	1976	900	900
Matanuska	1977	700	700
Valley	1978	650	650
	1979	400	400
	1980	450	450
	1975	1,100	1,100
	1976	1,000	1,000
State	1977	800	800
Total	1978	700	700
	1979	500	500
	1980	500	500

1/ Includes mixtures of oats, barley, peas and vetch.

2/ Includes Kenai Peninsula.

POTATO STOCKS - ALASKA 1975-80

Crop Year	Total Production	Oct 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1
	hundred weight								
1975	108.7	83.6	74.2	64.4	54.6	49.7	40.9	31.6	16.8
1976	91.0	86.5	79.5	62.5	53.0	45.0	35.5	25.0	12.0
1977	115.0	110.5	94.0	83.0	65.0	53.0	42.5	29.5	13.0
1978	81.0	74.0	56.0	47.5	38.5	33.5	30.0	26.0	13.5
1979	85.0	77.5	61.5	52.0	43.0	36.5	26.5	17.5	7.5
1980	77.0	73.0	58.5	52.0	41.5	34.0	27.5	19.5	

POTATOES - ALASKA 1975-80

District	Year	Area Harvested	Yield Cwt.	Production Cwt.	Production Value (000)
Tanana Valley	1975	120	125	15,000	210.0
	1976	95	108	10,300	135.0
	1977	95	103	9,800	123.0
	1978	125	135	16,900	223.0
	1979	110	159	17,500	254.0
	1980	95	129	12,300	247.0
Matanuska Valley	1975	390	230	89,700	1,038.0
	1976	400	196	78,500	927.0
	1977	405	253	102,300	1,163.0
	1978	300	205	61,500	688.0
	1979	330	190	63,800	745.0
	1980	340	184	62,700	1,176.0
Kenai Peninsula	1975	20	200	4,000	56.0
	1976	15	147	2,200	30.0
	1977	20	145	2,900	37.0
	1978	25	105	2,600	21.0
	1979	20	185	3,700	47.0
	1980	25	80	2,000	40.0
State Total	1975	530	205	108,700	1,304.0
	1976	510	178	91,000	1,092.0
	1977	520	222	115,000	1,323.0
	1978	450	180	81,000	932.0
	1979	460	185	85,000	1,046.0
	1980	460	167	77,000	1,463.0

POTATO PRODUCTION, DISPOSITION AND AVERAGE PRICE - ALASKA 1975-79

Crop Year	Production	Total Seed 1/	Farm Food Seed 2/	Lost and Shrinkage	Sold	Price Per Cwt.
	hundred weight					
1974	90.5	5.5	4.7	14.5	71.3	12.40
1975	108.7	5.3	10.8	19.6	78.3	12.00
1976	91.0	5.3	9.0	9.5	72.5	12.00
1977	115.0	4.4	9.0	36.0	70.0	11.50
1978	81.0	5.7	8.0	9.0	64.0	11.50
1979	85.0	5.6	7.0	15.0	63.0	12.30

1/ Includes seed purchased and used on farm where grown.

2/ Household use, fed livestock, and seed used on farm where grown.

LETTUCE AND CABBAGE - ALASKA 1975-80

District	Year	Area Harvested	Production	
			Cwt.	Value
		LETTUCE		
Tanana Valley	1975	9	1,830	52,000
	1976	12	1,200	37,000
	1977	10	1,500	36,000
	1978	12	1,700	48,000
	1979	13	1,300	39,000
	1980	15	700	24,000
Matanuska Valley	1975	76	7,670	200,000
	1976	68	8,300	224,000
	1977	70	9,100	227,000
	1978	83	9,500	247,000
	1979	77	12,300	338,000
	1980	85	10,600	244,000
State Total	1975	85	9,500	252,000
	1976	80	9,500	261,000
	1977	80	10,600	263,000
	1978	95	11,200	295,000
	1979	90	13,600	377,000
	1980	100	11,300	268,000
		CABBAGE		
Tanana Valley	1975	8	1,200	18,000
	1976	5	500	10,000
	1977	5	500	10,000
	1978	7	800	17,000
	1979	7	800	18,000
	1980	7	300	7,500
Matanuska Valley	1975	17	1,800	29,000
	1976	25	3,500	49,000
	1977	20	3,000	44,000
	1978	23	3,500	64,000
	1979	23	3,200	59,000
	1980	20	3,800	72,000
State Total	1975	25	3,000	47,000
	1976	30	4,000	59,000
	1977	25	3,500	54,000
	1978	30	4,300	81,000
	1979	30	4,000	77,000
	1980	27	4,100	79,500

CARROTS AND OTHER VEGETABLES - ALASKA 1975-80

District	Year	Area Harvested	Production	
			Cwt.	Value
		CARROTS		
Tanana Valley	1975	7	1,400	21,000
	1976	6	800	16,000
	1977	5	500	11,000
	1978	3	300	8,000
	1979	5	500	15,000
	1980	7	300	10,000
Matanuska Valley	1975	8	600	11,000
	1976	9	1,700	31,000
	1977	7	2,400	38,000
	1978	10	1,300	31,000
	1979	20	1,900	51,000
	1980	21	3.000	102,000
State Total	1975	15	2,000	32,000
	1976	15	2,500	47,000
	1977	12	2,900	49,000
	1978	13	1,600	39,000
	1979	25	2,400	66,000
	1980	28	3,300	112,000
		OTHER VEGETABLES 1/		
Tanana Valley	1975	10	300	9,500
	1976	8	300	10,000
	1977	8	300	11,000
	1978	15	500	20,000
	1979	17	600	24,000
	1980	14	500	23,000
Matanuska Valley 2/	1975	30	1,500	49,500
	1976	42	2,500	70,000
	1977	37	2,000	62,000
	1978	45	2,300	104,000
	1979	58	2,900	113,000
	1980	58	4,100	160,000
State Total	1975	40	1,800	59,000
	1976	50	2,800	80,000
	1977	45	2,300	73,000
	1978	60	2,800	124,000
	1979	75	3,500	137,000
	1980	72	4,600	183,000

1/ Excludes greenhouse grown vegetables. 2/ Includes Kenai Peninsula.

ALASKA LIVESTOCK AND POULTRY-1980

CATTLE AND CALVES: There were 8,400 head of cattle and calves on Alaska farms and ranches January 1, 1981, unchanged from last year. Inventory value of all cattle on January 1, 1981 was $4,284,000.

DAIRY: Milk cows that have calved numbered 1,100 head on January 1, 1981, unchanged from the previous January 1. There were 500 head of dairy replacement heifers as of January 1, 1981 was $1,193,000, $3,000 above a year earlier.

The number of Grade A dairies in the State on January 1, 1981, totaled 13 of which 10 are located in the Matanuska Valley; two in the Tanana Valley near Delta Junction; and one on the Kenai Peninsula near Kasilof. The largest number of Grade A dairies was 72 on January 1, 1958.

Milk Production in 1980 totaled 12.5 million pounds, 500,000 pounds less than in 1979. The value of milk produced, at $2,244,000, was $57,000 less than a year ago. The 1980 value per hundredweight of $17.95 compares with $17.70 in 1979.

BEEF: Beef cattle (all cattle and calves less milk cows and dairy replacement heifers) numbered 6,800 head, equalling the January 1, 1981 number. Beef cow numbers, at 2,500 head, were unchanged from the previous year. Replacement heifers are estimated at 900 head.

Total value of all beef stock on January 1, 1981 was $3,091,000, an increase of $207,000 from a year earlier. The main beef herds are located on Kodiak and other islands along the Aleutian Chain. Beef cattle numbers increased sharply during the year in the Tanana Valley.

Marketing and transportation problems continue to be main obstacles of the rancher. The slaughter houses on Kodiak Island and in the Homer area have helped reduce marketing problems. Most beef are sold off the range at the end of the grazing season, creating a concentrated market in the late fall. Most beef herds are small in number.

HOGS: There were 1,800 hogs and pigs on Alaska farms on December 1, 1980, up from 1,100 head the previous year. Total value of hogs on December 1, 1980 was $254,000, compared with $137,000 on December 1, 1979.

The main producing areas are in the Tanana and Matanuska Valleys. Marketing is accomplished by the individual producers, same as with the other species of livestock. Slaughter and marketing overhead per animal continues high because of the small number slaughtered in each plant.

SHEEP: Stock sheep and lambs in Alaska on January 1, 1981, totaled 3,900 head, down 400 head from a year earlier; a record low since our records began in 1960 and compares with 27,000 head in 1970.

The number of ewes one year old or over, at 2,000 head, was 300 less than the previous year. Wether and ram numbers, at 1,300 head, was unchanged from a year earlier. A total of 600 lambs were saved last year on Alaska ranches and farms equating the record low for the State in 1976. Inventory value for sheep was estimated at $341,000 compared with $335,000 the year before.

Nearly 95 percent of the sheep are located on the Aleutian Chain, about 750 air-miles from Anchorage. Ranges are adequate to handle several thousand head. Wethers are retained in the flocks for wool production. The small lamb crop versus number of ewes is due partly to lambing on the open range with little, if any, protection from weather and preditors.

WOOL PRODUCTION of 38,000 pounds, was up 6,000 pounds from last year's crop. The 3,300 head shorn was 300 more than in 1979. Fleece weight of 11.5 pounds was up slightly from the previous year. Value of 1980 wool crop was $32,000.

POULTRY: All chickens on farms and commercial laying flocks in Alaska totaled 35,000 on December 1, 1980. Value of all chickens on December 1, 1980 was $144,000, up from $113,000 a year earlier.

Replacement pullets are being raised from day-old chicks on one of the commercial operations, but are being flown in from the Pacific Northwest at about 20 weeks of age on some of the smaller commercial operations.

Egg Production totaled 367,000 dozen in 1980, 191,000 dozen less than in 1979, and compares with the high of 850,000 dozen in 1966. Value of eggs produced in 1980 was about $440,000, $258,000 below the previous year.

REINDEER: Most of the State's reindeer are located on the Seward Peninsula and Nunivak Island. There are also village herds located on other islands of the Bering Sea. The total number of reindeer in Alaska during 1980 was around 25,000 head.

COST OF PRODUCING MILK: The total cost of producing milk in the Matanuska Valley during 1979 was $19.03 per hundredweight. These costs represent an average of all production practices and costs in the Matanuska Valley.

LIVESTOCK: RECORD INVENTORY NUMBERS - ALASKA 1960-81

Class	Record	Inventory	Date
All Cattle and Calves	High	9,700	Jan. 1, 1975
	Low	7,300	Jan. 1, 1961
Milk Cows and Heifers That Have Calved 1/	High	3,200	Jan. 1, 1962
	Low	1,100	Jan. 1, 1980/81
Beef Cows and Heifers That Have Calved 1/	High	2,800	Jan. 1, 1975
	Low	1,400	Jan. 1, 1961/62
Heifers 500 Pounds and Over	High	1,400	Jan. 1, 1979/81
	Low	1,000	Jan. 1, 1961/63/67
Steers 500 Pounds and Over	High	900	Jan. 1, 1966
	Low	300	Jan. 1, 1977
Bulls 500 Pounds and Over	High	1,200	Jan. 1, 1980
	Low	200	Jan. 1, 1961/62/66
Calves Under 500 Pounds	High	2,500	Jan. 1, 1975
	Low	1,300	Jan. 1, 1961/62
All Hogs	High	1,800	Dec. 1, 1980
	Low	800	Dec. 1, 1975/76
All Sheep	High	27,000	Jan. 1, 1968/69/70
	Low	3,900	Jan. 1, 1981
All Chickens	High	51,000	Jan. 1, 1967
	Low	26,000	Dec. 1, 1970/75/79

1/ Prior to January 1, 1970, definition was cows two years old and older.

LIVESTOCK PRODUCTS: RECORD INVENTORY NUMBERS - ALASKA 1960-80

Commodity		Record	Production	Year
Milk	Lbs.	High	23,000,000	1962
		Low	12,500,000	1980
Eggs	Doz.	High	850,000	1966
		Low	367,000	1980
Wool	Lbs.	High	269,000	1969
		Low	28,000	1978

COST OF PRODUCING MILK - MATANUSKA VALLEY AND PACIFIC NORTHWEST 1979

Cost Item	Matanuska Valley		Pacific Northwest 1/	
	Per Cow	Per Cwt.	Per Cow	Per Cwt.
DIRECT COSTS:				
Feed				
Commercial feed and grain	$ 492.91	$ 3.56	$ 388.04	$ 2.80
Silage	387.89	2.80	104.01	.75
Hay	111.21	.80	194.86	1.41
Pasture and miscellaneous forage	76.20	.55	39.69	.29
Total	1,068.21	7.71	726.60	5.25
Other Production Costs				
Milk hauling	57.21	.41	52.55	.38
Artificial insemination	24.10	.17	10.08	.07
Veterinary and medicine	29.60	.22	16.02	.12
Fuels	37.18	.27	20.50	.15
Machinery and equipment repair	50.93	.38	24.47	.18
Miscellaneous expenses	110.36	.77	36.75	.27
Total	309.38	2.22	160.37	1.17
Other Direct Costs				
Hired labor	243.06	1.76	55.90	.40
Interest on operating capital	26.41	.19	13.02	.09
Overhead	190.00	1.37	48.06	.35
Total	459.47	3.32	116.98	.84
Total Direct Costs	$1,837.06	$13.25	$1,003.95	$ 7.26
INDIRECT COSTS:				
Ownership costs				
Machinery	86.74	.64	17.96	.13
Buildings and equipment	264.92	1.91	98.31	.71
Livestock	104.38	.75	196.54	1.42
Total	456.04	3.30	312.81	2.26
Other Indirect Costs				
Operator and family labor	256.68	1.86	188.89	1.37
Management	178.53	1.29	111.10	.80
Total	435.21	3.15	299.99	2.17
Total Indirect Costs	$ 891.25	$ 6.45	$ 612.80	$ 4.43
LAND COSTS:	.61	nil	81.44	.59
Total Costs	2,728.92	19.70	1,698.19	12.28
Less: Income from cull animals	-92.75	-.67	-201.17	-1.44
Total Net Costs	$2,636.17	$19.03	$1,497.02	$10.84

1/ Preliminary

SOURCE: U.S. Senate, 1979.

CATTLE ON FARMS - ALASKA JANUARY 1, 1976-81

District	1976	1977	1978	1979	1980	1981
			BEEF COWS THAT HAVE CALVED			
Tanana Valley	20	20	60	100	170	230
Matanuska Valley	60	60	80	120	110	190
Kenai Peninsula	240	220	200	270	220	240
Southwest 1/	2,280	2,100	2,060	2,010	2,000	1,840
State Total	2,600	2,400	2,400	2,500	2,500	2,500
VALUE (000) DOLLARS	930.0	913.0	948.0	1,021.0	1,125.0	1,249.0
			MILK COWS THAT HAVE CALVED			
Tanana Valley	80	130	120	140	40	80
Matanuska Valley	1,490	1,340	1,240	1,110	1,020	980
Kenai Peninsula	20	20	30	40	30	30
Southwest 1/	10	10	10	10	10	10
State Total	1,600	1,500	1,400	1,300	1,100	1,100
VALUE (000) DOLLARS	920.0	890.0	840.0	755.0	913.0	913.0
			BEEF REPLACEMENT HEIFERS 2/			
Tanana Valley	15	80	20	40	60	260
Matanuska Valley	25	20	20	30	60	60
Kenai Peninsula	80	70	60	80	80	80
Southwest 1/	480	330	600	750	600	500
State Total	600	500	700	900	800	900
VALUE (000) DOLLARS	235.0	190.0	273.0	347.0	440.0	495.0
			DAIRY REPLACEMENT HEIFERS 2/			
Tanana Valley	25	20	30	40	20	30
Matanuska Valley	475	480	470	450	470	460
Kenai Peninsula	-	-	-	10	10	10
Southwest 1/	-	-	-	-	-	-
State Total	500	500	500	500	500	500
VALUE (000) DOLLARS	208.0	200.0	200.0	197.0	277.0	280.0

1/ Includes Southeast.

2/ Over 500 pounds.

CATTLE ON FARMS - ALASKA JANUARY 1, 1976-81

District	1976	1977	1978	1979	1980	1981
			STEERS 2/			
Tanana Valley	10	10	10	10	30	40
Matanuska Valley	40	40	40	70	60	50
Kenai Peninsula	80	50	30	20	20	30
Southwest 1/	270	200	420	300	290	480
State Total	400	300	500	400	400	600
VALUE (000) DOLLARS	132.0	102.0	174.0	140.0	220.0	330.0
			BULLS 2/			
Tanana Valley	10	10	20	30	20	30
Matanuska Valley	30	40	40	40	50	50
Kenai Peninsula	30	30	30	30	40	40
Southwest 1/	1,030	1,020	910	1,000	1,090	880
State Total	1,100	1,100	1,000	1,100	1,200	1,000
VALUE (000) DOLLARS	599.0	616.0	579.0	614.0	738.0	630.0
			CALVES 3/			
Tanana Valley	40	30	50	110	60	120
Matanuska Valley	460	450	410	500	580	550
Kenai Peninsula	250	200	180	210	200	160
Southwest 1/	1,250	1,020	1,160	1,180	1,060	970
State Total	2,000	1,700	1,800	2,000	1,900	1,800
VALUE (000) DOLLARS	320.0	289.0	306.0	319.0	361.0	387.0
			ALL CATTLE			
Tanana Valley	200	300	310	470	400	790
Matanuska Valley	2,580	2,430	2,300	2,320	2,350	2,340
Kenai Peninsula	700	590	530	660	600	590
Southwest 1/	5,320	4,680	5,160	5,250	5,050	4,680
State Total	8,800	8,000	8,300	8,700	8,400	8,400
VALUE (000) DOLLARS	3,344.0	3,200.0	3,320.0	3,393.0	4,074.0	4,284.0

1/ Includes Southeast.

2/ Over 500 pounds.

3/ Under 500 pounds.

CALF CROP - ALASKA (Selected Years)

Year	Cows and Heifers That Have Calved January 1	Calving Percentage	Calf Crop	Year	Cows and Heifers That Have Calved January 1	Calving Percentage	Calf Crop
1961	4,200	83	3,500				
1965	4,600	89	4,100	1977	3,900	82	3,200
1970	4,400	86	3,800	1978	3,800	84	3,200
1975	4,400	80	3,500	1979	3,800	74	2,800
1976	4,200	79	3,300	1980	3,600	78	2,800

BEEF AND VEAL - ALASKA 1975-80

District	Year	Production		Sales	
		Pounds Dr. Wt.	Value (dollars)	Pounds Dr. Wt.	Value (dollars)
Tanana Valley	1975	30,000	19,000	17,000	11,000
	1976	29,000	25,000	17,000	14,000
	1977	34,000	36,000	21,000	22,000
	1978	30,000	34,000	12,000	13,000
	1979	72,000	88,000	11,000	14,000
	1980	116,000	138,000	29,000	36,000
Matanuska Valley	1975	207,000	136,000	123,000	81,000
	1976	220,000	181,000	148,000	118,000
	1977	167,000	145,000	106,000	91,000
	1978	275,000	266,000	164,000	159,000
	1979	285,000	265,000	156,000	150,000
	1980	296,000	294,000	140,000	141,000
Kenai Peninsula	1975	96,000	65,000	62,000	42,000
	1976	123,000	103,000	62,000	55,000
	1977	93,000	91,000	57,000	56,000
	1978	88,000	102,000	47,000	54,000
	1979	110,000	131,000	32,000	39,000
	1980	120,000	143,000	33,000	40,000
Southeast and Southwest	1975	331,000	224,000	254,000	171,000
	1976	344,000	299,000	249,000	216,000
	1977	228,000	206,000	144,000	129,000
	1978	233,000	238,000	139,000	141,000
	1979	281,000	271,000	132,000	131,000
	1980	235,000	249,000	100,000	107,000
State Total	1975	664,000	444,000	456,000	305,000
	1976	716,000	608,000	476,000	403,000
	1977	522,000	478,000	328,000	298,000
	1978	626,000	640,000	362,000	367,000
	1979	748,000	755,000	331,000	334,000
	1980	767,000	824,000	302,000	324,000

MILK PRODUCTION BY MONTHS - ALASKA 1975 AND 1980

Month	Milk Cows in Herd 1/		Milk Per Cow		Milk Production	
	1975	1980	1975	1980	1975	1980
			- - pounds - -		-thousand pounds-	
January	1,600	1,100	810	945	1,300	1,040
February	1,600	1,100	810	960	1,300	960
March	1,600	1,100	935	1,030	1,500	1,030
April	1,600	1,000	940	980	1,500	980
May	1,600	1,000	950	1,040	1,520	1,040
June	1,600	1,000	895	1,060	1,430	1,060
July	1,600	1,000	920	1,140	1,470	1,140
August	1,600	1,000	920	1,100	1,470	1,090
September	1,600	1,000	880	1,050	1,410	1,050
October	1,600	1,100	845	935	1,350	1,030
November	1,600	1,100	775	910	1,240	1,000
December	1,600	1,100	820	980	1,310	1,080
ANNUAL	1,600	1,100	10,500	11,364	16,800	12,500

1/ Includes all fresh and dry cows in herd

MILK PRODUCTION AND VALUE - ALASKA 1975-80

District	Year	Production		Value	Percent
		Pounds (000)	Value (000)	Per Cwt.	Milkfat
Tanana Valley 1/	1975	800	145	NOT	
	1976	700	128		
	1977	600	109		
	1978	400	75		
	1979	500	107	ESTIMATED	
	1980	600	132		
Matanuska Valley	1975	16,000	2,672	BY	
	1976	15,300	2,760		
	1977	15,800	2,830		
	1978	14,400	2,511	DISTRICTS	
	1979	12,500	2,194		
	1980	11,900	2,112		
State Total	1975	16,800	2,817	16.77	3.45
	1976	16,000	2,888	18.05	3.46
	1977	16,400	2,939	17.92	3.43
	1978	14,800	2,586	17.47	3.35
	1979	13,000	2,301	17.70	3.58
	1980	12,500	2,244	17.95	3.58

1/ Includes Kenai Peninsula

PIG CROP - ALASKA
(Selected Years)

Year	Spring Farrowings			Fall Farrowings		
	Sows Farrowed	Pigs Per Litter	Pigs Saved	Sows Farrowed	Pigs Per Litter	Pigs Saved
1961	130	6.9	900	120	6.8	820
1965	150	5.8	900	150	7.1	1,000
1970	120	6.6	790	130	6.9	900
1975	50	8.0	400	50	7.5	400
1976	80	7.5	600	50	8.0	400
1977	140	7.1	1,000	100	7.0	700
1978	160	6.9	1,100	160	7.5	1,200
1979	120	7.5	900	140	7.1	1,000
1980	170	7.1	1,200	210	6.7	1,400

ALL HOGS - ALASKA 1975-80

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East	South-West	State Total	Value (dollars)
1975	380	330	40	40	10	800	85,000
1976	300	400	40	50	10	800	104,000
1977	450	470	30	40	10	1,000	117,000
1978	550	450	30	60	10	1,100	147,000
1979	570	430	30	60	10	1,100	137,000
1980	740	950	70	30	10	1,800	254,000

PORK - ALASKA 1975-80

District	Year	Production		Sales	
		Pounds Dr. Wt.	Value (dollars)	Pounds Dr. Wt.	Value (dollars)
Tanana Valley	1975	90,000	50,000	86,000	48,000
	1976	51,000	42,000	49,000	41,000
	1977	87,000	74,000	83,000	70,000
	1978	102,000	93,000	99,000	89,000
	1979	80,000	85,000	79,000	84,000
	1980	85,000	86,000	82,000	83,000
Matanuska Valley	1975	54,000	29,000	49,000	26,000
	1976	59,000	46,000	57,000	43,000
	1977	93,000	75,000	88,000	71,000
	1978	140,000	123,000	135,000	119,000
	1979	121,000	119,000	118,000	116,000
	1980	124,000	120,000	119,000	115,000
Kenai Peninsula	1975	2,000	1,000	1,000	1,000
	1976	2,000	2,000	2,000	2,000
	1977	5,000	4,000	4,000	3,000
	1978	7,000	7,000	6,000	6,000
	1979	8,000	9,000	7,000	8,000
	1980	12,000	13,000	11,000	12,000
Southeast and Southwest	1975	4,000	3,000	1,000	1,000
	1976	8,000	6,000	6,000	5,000
	1977	10,000	8,000	8,000	7,000
	1978	12,000	11,000	10,000	10,000
	1979	12,000	13,000	10,000	11,000
	1980	11,000	13,000	9,000	11,000
State Total	1975	150,000	83,000	137,000	76,000
	1976	120,000	96,000	114,000	91,000
	1977	195,000	161,000	183,000	151,000
	1978	261,000	234,000	250,000	224,000
	1979	221,000	226,000	214,000	219,000
	1980	232,000	232,000	221,000	221,000

SHEEP, LAMB, WOOL AND MUTTON - ALASKA

SHEEP AND LAMBS ON FARMS JANAURY 1, 1976-81 - ALASKA

Year	Ewes One Year Plus State Total	Ewes One Year Plus Value (000)
1976	3,600	181.0
1977	3,100	170.0
1978	3,000	194.0
1979	2,700	230.0
1980	2,300	195.0
1981	2,000	189.0

Year	Weathers and Rams One Year Plus State Total	Weathers and Rams One Year Plus Value (000)
1976	3,000	135.0
1977	2,800	125.0
1978	2,200	120.0
1979	1,500	105.0
1980	1,300	91.0
1981	1,300	104.0

Year	All Lambs State Total	All Lambs Value (000)
1976	1,000	45.0
1977	600	30.0
1978	1,000	58.0
1979	800	58.0
1980	700	49.0
1981	600	48.0

Year	All Sheep and Lambs State Total	All Sheep and Lambs Value (000)
1976	7,600	361.0
1977	6,500	325.0
1978	6,200	372.0
1979	5,000	393.0
1980	4,300	335.0
1981	3,900	341.0

LAMB CROP - ALASKA (Selected Years)

Year	Ewes One Year Old and Over January 1	Lambing Percentage	Lambs Saved
1961	6,000	67	4,000
1965	9,000	56	5,000
1970	11,000	45	5,000
1975	6,000	17	1,000
1976	3,600	17	600
1977	3,100	31	1,000
1978	3,000	30	900
1979	2,700	26	700
1980	2,300	26	600

LAMB AND MUTTON - ALASKA 1975-80

Year	Production Pounds Dr. Wt.	Production Value (dollars)	Sales Pounds Dr. Wt.	Sales Value (dollars)
1975	30,000	16,000	15,000	8,000
1976	15,000	8,000	7,500	4,000
1977	24,000	14,000	12,000	7,000
1978	36,000	22,000	18,000	11,000
1979	24,000	14,000	12,000	7,000
1980	18,000	10,000	9,000	5,000

WOOL PRODUCTION - ALASKA 1975-80

Year	Production Pounds	Production Value (dollars)
1975	67,000	60,000
1976	51,000	45,000
1977	44,000	33,000
1978	28,000	21,000
1979	32,000	29,000
1980	38,000	32,000

POULTRY ON FARMS - ALASKA DECEMBER 1, 1975-80

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East	South-West	State Total	Value (dollars)
			HENS AND PULLETS OF LAYING AGE				
1975	13,400	11,100	200	200	100	25,000	89,200
1976	9,500	20,900	200	300	100	31,000	119,000
1977	8,500	18,000	200	200	100	27,000	122,000
1978	9,700	16,000	1,000	300	1/	27,000	113,000
1979	1,200	21,300	1,200	300	1/	24,000	106,000
1980	600	20,200	1,000	200	1/	22,000	94,000
			ALL CHICKENS				
1975	13,800	11,500	300	300	100	26,000	92,000
1976	9,900	21,300	300	400	100	32,000	122,000
1977	8,800	18,400	400	300	100	28,000	125,000
1978	9,900	17,500	1,200	400	1/	29,000	120,000
1979	1,700	22,400	1,500	400	1/	26,000	113,000
1980	2,000	30,200	2,500	300	1/	35,000	144,000

1/ Combined with Southeast

EGG PRODUCTION BY MONTHS - ALASKA 1975 AND 1980

Months	Hens and Pullets		Eggs Per Layer		Egg Production	
	1975	1980	1975	1980	1975	1980
					(000)	
December 1/	28,500	24,000	14.74	18.13	420	435
January	28,500	23,000	13.86	16.52	395	380
February	28,500	22,000	13.51	14.55	385	320
March	26,000	22,000	16.54	15.00	430	330
April	26,000	22,000	18.46	14.77	480	325
May	26,000	23,000	18.85	14.78	490	340
June	23,500	24,000	18.72	15.21	440	365
July	23,500	24,000	18.51	17.71	435	425
August	23,500	23,000	18.09	16.96	425	390
September	25,000	23,000	16.00	16.30	400	375
October	25,000	23,000	16.00	16.30	400	375
November	25,000	22,000	12,00	15,00	300	330

1/ December preceding year

POULTRY - ALASKA 1975-80

District	Year	Production			Sales	
		Number Raised 1/	Pounds Dr. Wt.	Value (dollars)	Pounds Dr. Wt.	Value (dollars)
Tanana Valley	1975	37,000	84,300	24,800	10,700	3,100
	1976	32,000	70,000	21,500	13,000	4,300
	1977	21,000	53,500	17,800	18,500	6,200
	1978	22,000	48,000	15,400	15,000	4,600
	1979	24,000	58,700	27,500	16,600	7,300
	1980	26,000	55,500	29,400	8,800	4,700
Matanuska Valley	1975	25,000	70,000	20,400	26,000	7,500
	1976	30,000	57,300	17,600	21,000	6,300
	1977	15,000	38,500	12,400	12,500	4,100
	1978	33,000	72,100	23,000	12,700	3,900
	1979	45,400	79,000	36,400	15,000	7,000
	1980	49,800	90,400	47,000	11,700	6,000
Kenai Peninsula	1975	3,400	9,000	2,600	700	200
	1976	3,500	9,000	2,700	500	200
	1977	7,000	17,800	5,900	1,500	500
	1978	7,000	17,400	5,500	800	300
	1979	10,000	21,100	9,700	1,000	500
	1980	12,000	18,600	9,700	2,200	1,100
Southeast and Southwest	1975	2,600	3,700	1,200	600	200
	1976	2,500	3,700	1,200	500	200
	1977	3,000	8,200	2,900	500	200
	1978	5,000	22,500	4,100	500	200
	1979	4,600	11,200	5,400	400	200
	1980	3,200	7,500	3,900	300	200
State Total	1975	68,000	167,000	49,000	38,000	11,000
	1976	68,000	140,000	43,000	35,000	11,000
	1977	46,000	118,000	39,000	33,000	11,000
	1978	67,000	150,000	48,000	29,000	9,000
	1979	84,000	170,000	79,000	33,000	15,000
	1980	91,000	172,000	90,000	23,000	12,000

1/ Purchased during the year, excludes death loss before reaching 20 weeks of age.

EGGS - ALASKA 1975-80

District	Year	Av. Number of Layers	Production		Sales (dozen)
			Dozen	Value (dollars)	
Tanana Valley	1975	NOT	154,000	162,000	151,800
	1976		200,000	244,000	196,000
	1977		203,000	256,000	198,000
	1978		199,000	259,000	192,000
	1979		173,000	230,000	164,200
	1980		12,000	17,500	6,200
Matanuska Valley	1975	ESTIMATED	254,000	243,500	249,900
	1976		295,000	320,000	287,500
	1977		310,000	359,000	301,000
	1978		188,000	224,000	181,000
	1979		378,000	458,000	369,000
	1980		340,000	400,000	329,000
Kenai Peninsula	1975	BY	2,200	2,900	500
	1976		1,500	2,500	500
	1977		1,000	1,300	300
	1978		2,000	2,800	300
	1979		3,000	4,400	800
	1980		12,000	18,000	8,000
Southeast and Southwest	1975	DISTRICTS	6,800	8,600	5,800
	1976		3,500	3,500	1,000
	1977		3,000	3,700	700
	1978		3,000	4,200	700
	1979		4,000	5,600	1,000
	1980		3,000	4,500	800
State Total	1975	26,000	417,000	417,000	408,000
	1976	26,000	500,000	570,000	485,000
	1977	29,000	517,000	620,000	500,000
	1978	22,000	392,000	490,000	374,000
	1979	27,000	558,000	698,000	535,000
	1980	23,000	367,000	440,000	344,000

ALASKA'S CLIMATE

Temperature and precipitation vary considerably from one end of the State to the other. Although several areas of the State have suitable soils, as well as a favorable climate for agriculture, most farms are located in the Railbelt. This area includes the Tanana Valley, Matanuska Valley and Kenai Peninsula.

Matanuska Valley, surrounding the Palmer area and near Anchorage, is the major agriculture producing area. The Valley not only has good soils, but the most suitable climate for agriculture of any area in the State. Temperatures are a little more moderate than in the interior. Summer light length is shorter than at Fairbanks; Anchorage has up to 19 hours of daylight. Summer and fall seasons have frequent showers and cloudy weather. Total precipitation is limited, but usually adequate because of the low evaporation rate. The connecting Susitna Valley has a shorter growing season, otherwise, similar conditions prevail. April, May and June are the driest months.

Tanana Valley, from Fairbanks to Delta Junction, is the second most important existing agriculture area. Temperature changes are more severe because of the distance from the ocean. Warming and cooling trends in the spring and autumn are quite rapid. Summers are shorter, and warmer than the other areas; winters are colder. In spite of the short growing season, the long days of sunshine and warmer temperatures make crops grow and mature faster. Fairbanks has up to 21 hours of daylight.

Kenai Peninsula has primarily a maritime weather situation. Temperatures are moderated by effects of the water. Frosts are fairly frequent until mid-June. Precipitation is higher than the other areas of the Railbelt. Crops have to be carefully selected for their tolerance of frosts, and a shorter growing season.

Other Areas, including Kodiak and other islands along the Aleutian Chain, as well as the Southeast, all have a maritime climate with warmer winters and cooler summers than the interior. Cloudy weather and frequent rains often delay crop maturity.

Detailed summaries are shown on the following pages for temperature, precipitation and growing degree days. Data for these summaries were taken from monthly Climatological Data publications and may vary somewhat from the annual Climatological Data publication when it becomes available.

The length of growing season (GS) shown in the 1980 and historic temperature summaries is based on 32°. The GS is the number of days between the last spring and first fall occurance of 32°. Offician Weather Service temperatures are recorded at the five foot level, and therefore, minimum temperatures taken near the ground level will normally be colder than the official readings occasionally by as much as 10°.

Growing Degree Days as shown on page 48 are based on an average temperature of 40°. Only temperature values above 40° contribute to growing degree days used in Alaska. For example; the average July for Anchorage is 57°; therefore, 57°-40°=17°, multiplied by 31 days in the month of July, gives 527 growing season degree days (does not always agree with table due to rounding of monthly temperatures).

Permafrost, as shown on the map on page 50, is a condition where the soil remains frozen throughout the year. Usually permafrost does not exist where the annual mean temperature is 32°F or above. The vegetation insulates the soil; when it is removed, the soil begins to thaw.

FOOTNOTE: 1/ a) averages through 1980; b) $\leq$ means equal to or less than.

PRECIPITATION DATA BY AREA (Inches) - ALASKA 1/

STATION	1980 PRECIPITATION							AVERAGE PRECIPITATION							
	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	ANNUAL SNWFL
TANANA VALLEY															
Fairbanks Arpt.	.10	.31	1.38	1.37	1.68	.76	7.88	.33	.65	1.42	1.90	2.19	1.08	11.22	41.1
Univ. Exp. Sta.	.02	.11	1.81	3.35	1.74	.93	10.44	.36	.78	1.61	2.31	2.60	1.30	12.90	33.4
Salcha	.01	.74	3.61	1.65	2.03	1.48	11.52	.33	.94	2.07	2.36	2.01	1.26	11.69	50.2
Big Delta	.01	.80	1.98	1.32	2.44	.86	8.18	.31	.94	2.20	2.49	1.92	1.23	11.44	28.5
Clearwater	.08	.93	2.81	.95	2.53	1.99	13.32	.40	1.26	2.60	2.43	2.39	1.32	15.52	50.8
MATANUSKA VALLEY															
Anchorage	.19	1.68	2.73	2.27	3.06	2.53	19.12	.56	.59	1.07	2.07	2.32	2.37	14.74	68.9
PMC-Butte	.05	.96	1.84	3.60	2.31	2.97	20.85	.80	.54	1.51	2.55	1.06	2.40	18.61	75.2
Palmer AES	.12	.73	2.59	3.45	3.19	4.05	21.41	.74	.58	1.42	2.26	1.29	2.68	15.28	59.4
Mat. Exp. Sta.	.13	.99	2.61	3.72	2.84	3.78	18.74	.45	.73	1.64	2.43	2.74	2.28	15.43	68.3
Wasilla 3S	.12	.83	3.56	3.47	3.73	3.28	18.21	.83	.52	1.83	2.51	1.39	3.36	15.97	49.1
Talkeetna	.52	3.23	5.73	4.68	3.43	2.33	28.51	1.12	1.46	2.17	3.48	4.89	4.52	28.64	106.9
KENAI PENINSULA															
Homer Arpt.	3.27	2.28	1.34	2.99	2.82	2.59	35.01	1.09	.91	1.06	1.70	2.56	2.85	23.06	112.0
Kasilof	.60	1.71	2.27	2.44	2.97	2.94	22.81	1.02	.76	1.23	1.57	1.56	3.65	18.38	60.2
Sterling	.59	1.19	2.05	2.95	2.04	1.89	19.28	.81	.67	1.16	1.74	1.20	2.62	15.09	41.0
OTHER AREAS															
Kodiak	5.85	6.34	2.15	.84	1.78	8.62	67.50	3.81	4.35	4.12	3.54	4.30	6.11	56.71	51.2
Nome	.43	1.08	3.78	2.51	1.50	1.21	16.96	.73	.70	.95	2.42	3.57	2.40	16.44	77.9
McGrath	.08	1.25	3.47	2.96	2.46	1.32	15.38	.66	.80	1.70	2.28	3.28	2.14	16.74	77.4
Juneau Arpt.	5.32	2.53	4.37	6.49	5.61	7.91	61.88	2.99	3.31	2.93	4.69	5.00	6.90	54.67	98.1
Haines	5.59	.81	1.08	1.99	1.79	5.06	70.06	2.34	1.66	1.02	1.59	1.48	4.68	52.00	119.7
Kenny Lake	.04	.11	2.18	2.21	1.67	.69	10.54	.21	.65	1.54	2.22	1.16	.91	10.59	59.8

1/ See footnote on page 44.

1980 TEMPERATURE DATA BY AREA - ALASKA 1/

STATION	HIGH/LOW FOR					AVERAGE FOR					DATE OF LAST SPRING MINIMUM OF		DATE OF FIRST FALL MINIMUM OF		GS IN DAYS FOR
	YEAR	JAN	APR	JUL	SEP	YEAR	JAN	APR	JUL	SEP	≤32°	≤40°	≤40°	≤32°	≤32°
TANANA VALLEY															
Fairbanks Arpt.	85/-50	43/-50	60/14	81/42	66/24	29	-10	36	61	43	5/13	6/9	8/5	9/1	111
Univ. Exp. Sta.	82/-55	44/-55	63/10	82/37	65/18	28	-12	35	60	41	5/22	6/24	7/31	8/22	92
Salcha	84/-59	45/-59	62/9	82/41	64/18	28	-12	35	61	42	6/8	6/20	8/1	9/1	85
Big Delta	86/-54	47/-54	59/16	80/41	61/19	31	-8	39	62	43	5/13	6/9	8/24	9/1	111
Clearwater	89/-65	45/-65	60/12	81/31	61/17	27	-14	37	60	41	6/14	6/24	7/5	7/29	45
MATANUSKA VALLEY															
Anchorage	75/-23	46/-17	51/23	75/42	60/29	36	14	39	57	47	5/5	6/9	8/24	9/2	120
PMC-Butte	80/-42	42/-40	52/20	80/44	63/19	33	3	37	60	46	5/23	6/16	8/2	8/23	92
Palmer AES	78/-30	45/-26	56/24	78/42	61/25	36	10	41	57	47	5/15	6/13	8/22	8/23	100
Mat. Exp. Sta.	77/-31	45/-31	59/23	77/42	62/24	36	12	41	58	47	5/15	6/13	8/22	8/23	100
Wasilla 3S	78/-30	49/-26	60/21	78/40	64/26	37	13	41	59	48	5/15	6/23	7/2	9/2	110
Talkeetna	83/-37	36/-29	58/15	83/42	66/24	34	7	38	59	46	5/13	6/8	8/22	9/1	111
KENAI PENINSULA															
Homer Arpt.	67/-1[illegible]	42/-13	50/26	67/39	65/30	38	19	39	53	48	5/9	6/17	7/1	9/4	118
Kasilof	67/-35	43/-35	55/15	67/30	61/20	33	8	38	52	44	6/13	6/30	7/4	7/4	21
Sterling	79/-32	40/-32	52/20	79/34	61/19	32	7	37	55	44	6/9	6/29	7/2	8/24	76
OTHER AREAS															
Kodiak	78/4	45/5	51/27	71/45	71/38	43	30	41	56	52	4/15	6/17	9/5	10/8	176
Nome	71/-35	34/-35	42/-3	71/42	58/26	29	9	24	54	43	6/12	6/30	8/3	8/20	69
McGrath	84/-54	41/-54	60/8	84/45	63/28	26	-14	34	57	42	5/12	6/17	8/14	9/1	112
Juneau Arpt.	79/-7	44/-7	61/25	72/41	63/32	42	20	42	56	49	5/4	6/19	8/24	9/12	131
Haines	85/-11	45/-11	60/29	74/43	67/36	42	17	43	57	50	4/1	5/24	9/6	10/4	186
Kenny Lake	80/-56	44/-48	56/14	80/35	63/16	28	-5	36	56	42	6/1	6/21	7/2	8/24	84

1/ See footnote on page 44.

HISTORICAL TEMPERATURE DATA BY AREA - ALASKA 1/

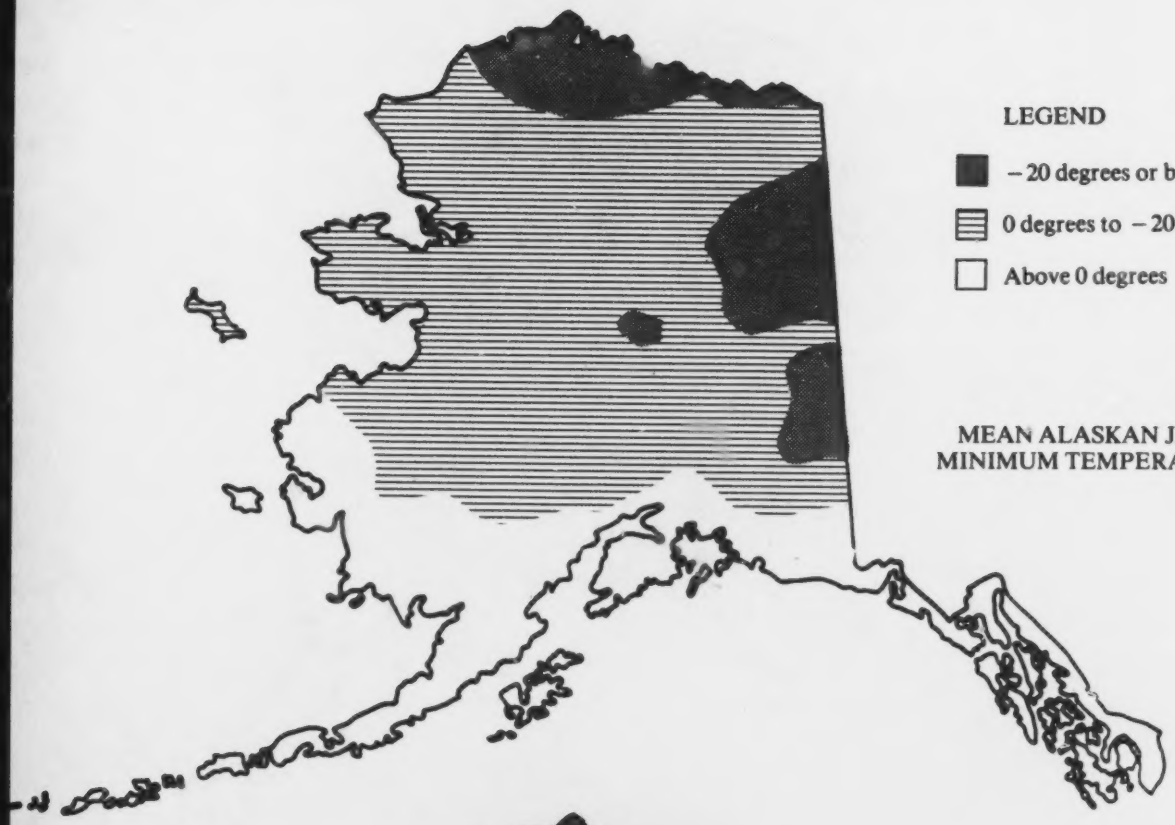
STATION	RECORD HIGH/LOW FOR					AVERAGE FOR					DATE OF LAST SPRING MINIMUM OF		DATE OF FIRST FALL MINIMUM OF		AVE. NO. GS DAYS
	YEAR	JAN	APR	JUL	SEP	YEAR	JAN	APR	JUL	SEP	≤32°	≤40°	≤40°	≤32°	≤32°
TANANA VALLEY															
Fairbanks Arpt.	96/-66	47/-66	74/-49	93/34	84/12	26	-12	29	61	44	5/19	6/1	8/26	9/3	110
Univ. Exp. Sta.	99/-65	44/-65	76/-32	99/29	85/7	27	-8	30	60	45	6/14	6/8	8/21	8/31	93
Big Delta	92/-63	48/-63	76/-37	91/35	79/7	27	-5	29	59	44	5/20	6/3	8/23	9/4	108
Salcha	91/-64	46/-64	76/-19	91/33	74/18	28	-8	31	61	46	5/30	6/22	7/3	8/17	97
Clearwater	93/-72	48/-72	74/-32	90/28	74/13	25	-7	31	59	44	6/25	6/29	7/3	7/1	64
MATANUSKA VALLEY															
Anchorage	86/-38	56/-35	65/-21	83/35	73/19	35	12	35	58	48	5/8	5/27	8/30	9/20	135
Palmer AES	90/-35	51/-35	69/-17	85/37	72/17	36	14	37	58	48	5/16	6/3	9/2	9/25	124
Mat. Exp. Sta.	91/-41	51/-40	68/-16	85/31	75/16	35	12	36	58	50	5/23	6/5	8/22	9/7	107
Wasilla 3S	90/-38	52/-38	68/-8	87/37	76/17	37	16	39	59	49	5/22	5/28	8/22	9/1	105
Talkeetna	91/-48	45/-48	69/-37	90/26	78/11	33	9	33	58	46	5/28	6/9	8/27	9/1	98
PMC-Butte	85/-42	51/-40	72/-10	85/37	71/19	36	12	38	58	48	5/26	6/27	7/8	8/25	99
KENAI PENINSULA															
Homer Arpt.	81/-17	49/-17	60/-7	78/37	66/24	37	21	35	52	47	6/3	6/30	8/30	9/22	133
Kasilof	87/-45	48/-45	63/-14	83/30	72/15	34	15	34	53	46	6/28	6/28	7/6	7/2	94
Sterling	87/-40	44/-38	65/-8	87/32	70/15	34	15	35	55	47	6/14	6/21	7/2	8/26	84
OTHER AREAS															
Kodiak	86/-8	54/-8	59/-7	80/38	72/26	41	30	37	54	50	5/13	6/2	9/21	10/5	144
Nome	86/-47	46/-47	60/-30	86/31	65/15	26	6	19	50	42	6/14	6/27	7/9	8/31	78
McGrath	90/-64	54/-64	67/-31	89/33	76/6	25	-9	27	58	44	5/18	6/30	7/2	9/3	103
Juneau Arpt.	90/-22	57/-20	71/6	90/36	72/26	40	24	39	56	49	5/28	6/16	9/5	9/26	131
Haines	98/-17	48/-11	74/16	98/35	76/26	41	22	42	58	51	5/8	6/10	9/7	10/3	150
Kenny Lake	88/-57	44/-57	68/-10	88/30	70/16	28	-3	35	57	45	6/24	6/30	7/6	7/12	56

1/ See footnote on page 44.

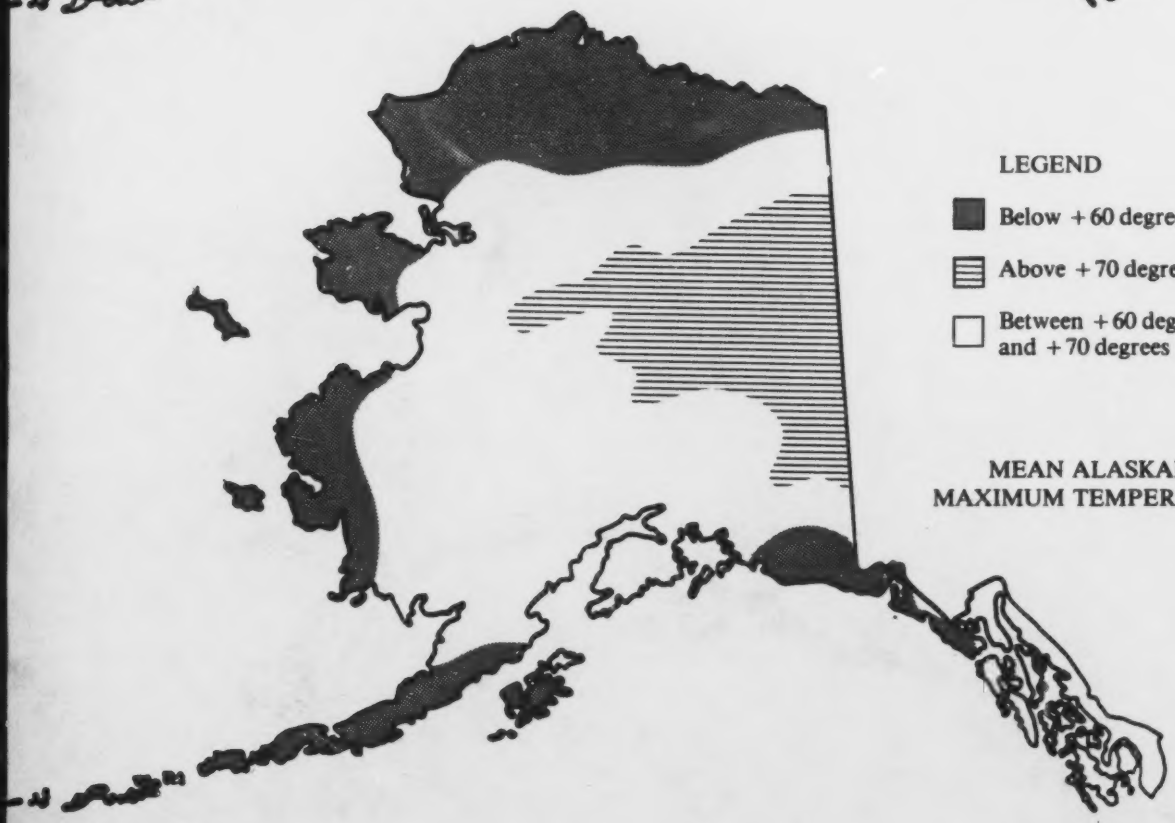
SEASON GROWING DEGREE DAYS (Base 40°F) - ALASKA 1/

Station	May		Jun		Jul		Aug		Sep		Total	
	1980	Av.	1980	Av.	1980	Av.	1980	Av.	1980	Av.	1980	Av.
TANANA VALLEY												
Fairbanks Arpt.	332	226	495	570	648	642	422	477	90	132	1987	2047
Univ. Exp. Sta.	322	220	504	546	632	626	415	477	30	141	1903	2010
Salcha	304	245	477	507	638	660	446	586	63	171	1928	2169
Big Delta	391	195	528	513	670	601	493	459	96	108	2178	1876
Clearwater	301	217	477	435	605	589	431	462	24	105	1838	1808
MATANUSKA VALLEY												
Anchorage	180	192	396	438	527	555	446	493	201	243	1750	1921
PMC-Butte	221	242	456	444	605	567	443	508	165	231	1890	1788
Palmer AES	202	226	423	435	533	555	419	515	210	273	1787	2004
Mat. Exp. Sta.	217	217	411	450	546	543	422	440	207	231	1803	1881
Wasilla 3S	236	251	453	462	577	592	484	552	231	288	1981	2145
Talkeetna	167	208	405	450	558	555	425	453	174	183	1729	1849
KENAI PENINSULA												
Homer Arpt.	130	71	300	261	406	381	350	384	240	210	1426	1307
Kasilof	78	68	255	267	369	415	279	394	111	192	1092	1336
Sterling	105	143	312	330	453	474	326	443	114	204	1310	1594
OTHER AREAS												
Kodiak	158	99	381	291	493	437	499	462	366	300	1897	1589
Nome	99	0	114	165	428	313	301	285	78	63	1020	826
McGrath	236	127	354	471	533	564	372	419	69	114	1564	1695
Juneau Arpt.	291	211	468	396	484	487	456	443	270	276	1969	1813
Haines	332	285	525	453	536	549	543	558	291	315	2227	2160
Kenny Lake	161	136	429	393	484	515	366	446	69	144	1509	1634

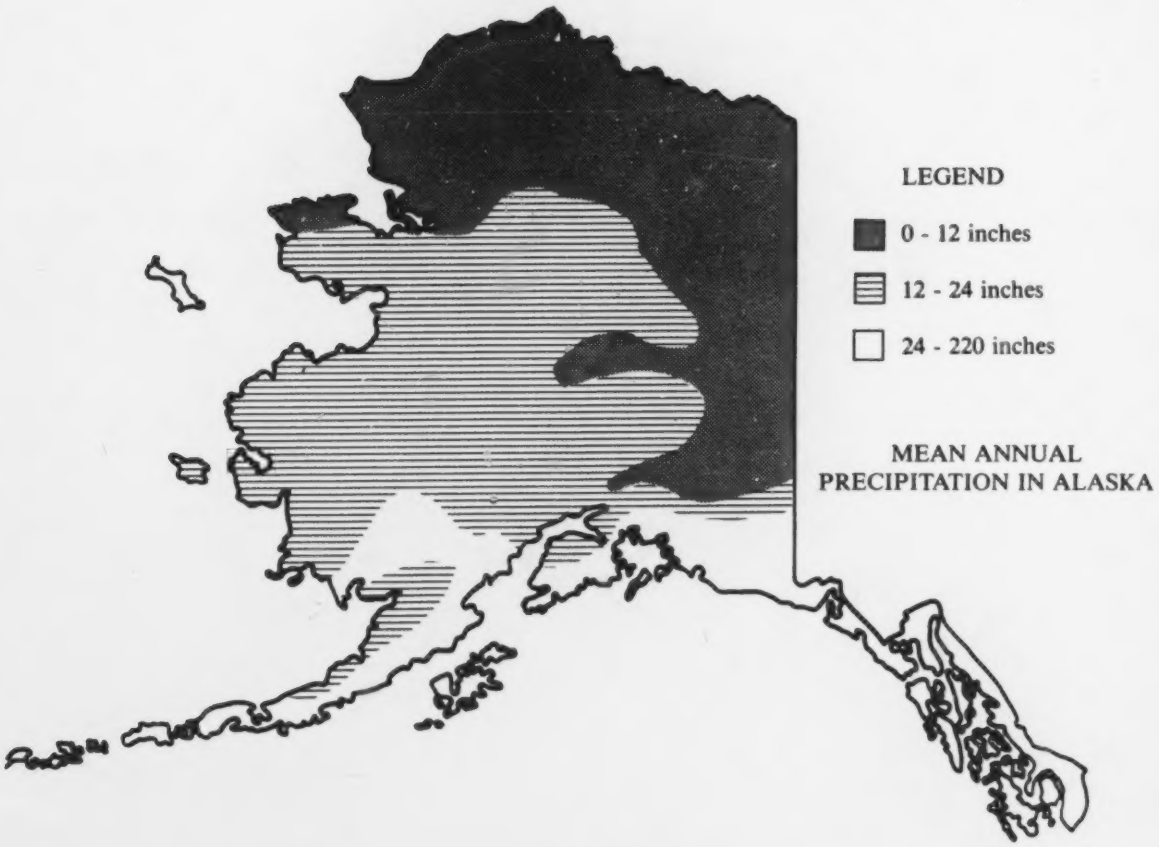
1/ See footnote on page 44.



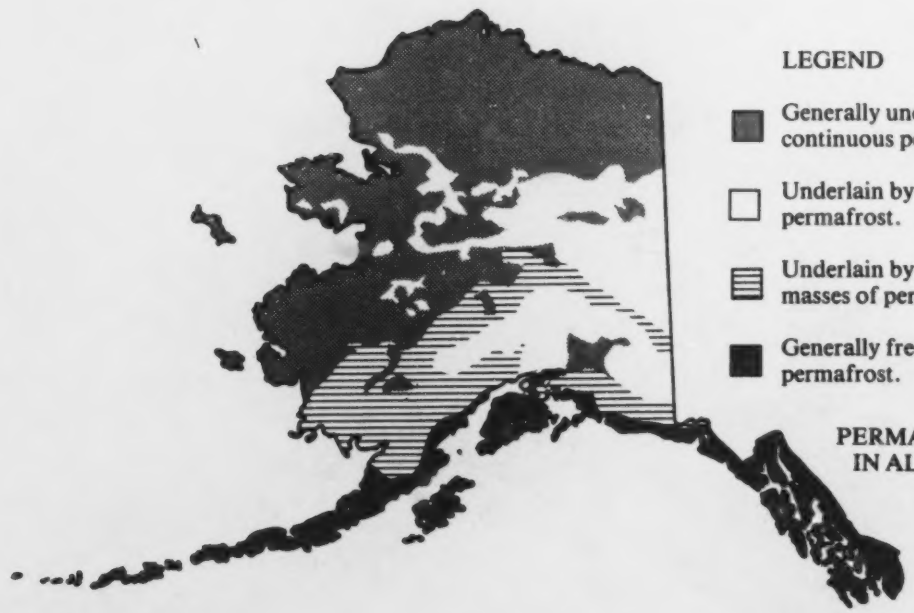
MEAN ALASKAN JANUARY
MINIMUM TEMPERATURES, °F



MEAN ALASKAN JULY
MAXIMUM TEMPERATURES, °F



MEAN ANNUAL
PRECIPITATION IN ALASKA


LEGEND
Generally underlain by continuous permafrost.
Underlain by discontinuous permafrost.
Underlain by isolated masses of permafrost.
Generally free from permafrost.

PERMAFROST
IN ALASKA